FINAL DRAFT

12/31/84

SITE INSPECTION REPORT
AND HAZARDOUS RANKING SYSTEM MODEL
LCP CHEMICALS
LINDEN, NEW JERSEY

PREPARED UNDER

TECHNICAL DIRECTIVE DOCUMENT NO.
CONTRACT NO. 68-01-6699
02-8403-54A

FOR THE

ENVIRONMENTAL SERVICES DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

DECEMBER 31, 1984

NUS CORPORATION SUPERFUND DIVISION

SUBMITTED BY

REVIEWED/APPROVED BY

JØSEPH CATTAFE PROJECT MANAGER

TERRY A. RITTÉR

REGIONAL PROJECT MANAGER

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT EXECUTIVE SUMMARY

LCP Chemicals			D079303020			
Site Name		: · · · ·	EPA Site ID Number			
Linden, New Jersey			02-8403-54A			
Address	111	··. ·······	TDD Number			

SITE DESCRIPTION

LCP Chemicals, a division of LCP Chemicals and Plastics, Inc., operates a chlorine gas production facility at the foot of S. Wood Avenue in Linden, New Jersey. Chlorine gas is produced by the electrolysis of a sodium chloride brine. The process involved the use of a mercury cell for a period of several years during the 1970's. Sodium hydroxide (caustic soda) sludge, a biproduct of this process, was subsequently contaminated with mercury. The sludge was stored in a lagoon which was located between the production plant and S. Branch Creek to the east. LCP attempted to recover some of the mercury in an experimental chem-fix lagoon which was constructed at the edge of the main lagoon. The project was abandoned, and LCP changed their production procedures to eliminate the hazardous mercury component from the process.

In 1982 the US EPA ordered the LCP plant closed until the lagoon was secured and the hazard to plant workers was eliminated. LCP proposed to excavate the experimental lagoon and place the excavated material along with all mercury contaminated waste into the brine-sludge lagoon. The lagoon would subsequently be capped with an impermeable layer of clay. The proposal was accepted and closure procedures were completed during the fall of 1984.

The landfill covers an area of 62,500 square feet and rises to a point approximately 15 feet above S. Branch Creek, a tributary to the Arthur Kill River. LCP has installed five groundwater monitoring wells around the landfill. LCP samples these wells semi-annually and analyzes the samples for a list of 14 substances.

HAZARD RANKING SCORE: SM - 13.1	S _{FE} - 18.89 S _{DC} - 20.83	
Prepared by: J. S. Cattafe of NUS Corporation	Date: 5/21/85	

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENT	FICATION
01 STATE	02 SITE NUMBER
NJ	D079303020

II. SITE NAME AND LOCA	LTION						
O1 SITE NAME (Legal, common, or	descriptive name of site)	and the second s	02 STREE	T, ROUTE NO., OR	SPECIFIC LOC	CATION IDENTIFIER	
LCP Chemicals	, Inc.	•	Foot of S. Wood Avenue				
03 CITY			1	05 ZIP CODE	06 COUN		07COUNTY 08 CONG CODE DIST
Linden			NJ	07036	Unio	on	039 15
09 COORDINATES	LONGITUDE 0 7 4°1 2' 3 2"W	10 TYPE OF OWNERS	🗆 B. FEI	DERAL	_ C STA	TE D. COUNTY	☐ E. MUNICIPAL VN
III. INSPECTION INFORM							
01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERA		. 3004			
9 , 27, 84	ACTIVE INACTIVE	BEC	1900 Sinning year			UNKNOWN	,
04 AGENCY PERFORMING INSP							
□ A, EPA 🗆 🗷 B. EPA C	ONTRACTOR NUS COL	ame of lum)	_ 🗆 C. MI	UNICIPAL 🗆 D	. MUNICIPAL	CONTRACTOR	(Name of firm)
☐ E. STATE ☐ F. STATE	CONTRACTOR	ame of firm)	_ C.G.O	THER	ısı	реслу)	
05 CHIEF INSPECTOR		OS TITLE			07 0	RGANIZATION	08 TELEPHONE NO.
J.S. Cattafe		Hydroge	ologi	st		JS Corp.	(201 225-6160
09 OTHER INSPECTORS		10 TITLE			110	RGANIZATION	12 TELEPHONE NO.
D. Farley		Hydroge	ologi	st	NU	JS Corp.	201 225-6160
M. Nicholas		Hydroge	eologi	st	N	US Corp.	(201) 225-6160
			 				1
G. Burchette	· 	Hydroge	eologi	st	N	US Corp.	(201) 225-6160
	460) 					()
,			••		•		()
13 SITE REPRESENTATIVES IN	TERVIEWED	14 TITLE		15ADDRESS	, , , , , , ,		16 TELEPHONE NO
Mark E. McLau	ghlin	Technical Superviso		P.O. Box	484		(201) 862-1666
·			İ				()
							()
		!			a u	····	()
		 					
						<u> </u>	()
							()
							,
17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CO	NOITIONS				·
Ø PERMISSION ☐ WARRANT	1000-1640 HRS.	Partly	Cloudy	y, 70° -	75°F,Wir	ndy	
IV. INFORMATION AVAI	ILABLE FROM						O3 TELEPHONE NO.
01 CONTACT			02 OF (Agency/Organization)				
Mark Haulenbe	ek	Ű.S. E					201 321-668
04 PERSON RESPONSIBLE FO	OR SITE INSPECTION FORM	05 AGENCY	1	RGANIZATION	1	LEPHONE NO.	08 DATE
J.S. Cattafe			•	S CORP.	2	01-225-616	0 12 /10/84 MONTH DAY YEAR

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER | NJ | D079303020

II WACTE CT	FATES, QUANTITIES, AN	D CHARACTERI	STICS	 		 	
01 PHYSICAL S	TATES (Check all that apply)	02 WASTE QUANTI	TY AT SITE	03 WASTE CHARACTE	RISTICS (Check all that ap)	D/y)	
	□ E. SLURRY		waste quantities ndépéndenti	X A TOXIC	□ E. SOLUB	LE CILHIGHLY VI	DLATILE
	R, FINES _ F LIQUID	TONS _		Ø B CORROS	SIVE _ FINFECT	TIOUS JEXPLOSIN	
IX C. SLUDGE	☐ G. GAS	CUBIC YARDS	30,900	& D. PERSIST	TENT THE IGNITA	BLE X L. INCOMPA	TIBLE
□ D. OTHER	(Specity)	NO OF DRUMS -				<u>_ m 1101 AF7</u>	
III. WASTE T	YPE						
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE		Unknown		Brine slud	lge	
OLW	OILY WASTE		1.			<u> </u>	
SOL	SOLVENTS		Unknown		Possible s	spent degreas	ers
PSD	PESTICIDES	*					
occ	OTHER ORGANIC CH	EMICALS	0.7				
IOC	INORGANIC CHEMIC	ALS				To Seemen 1 and	
ACD	ACIDS		Unknown		Unknown		
BAS	BASES		Unknown		Caustics a	re a biprodu	ct of the
MES	HEAVY METALS				process		
IV. HAZARD	OUS SUBSTANCES (See AC	poendux for most frequent	ly cited CAS Numbers)		 : : 		
01 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE/DISI	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
BAS	Sodium hydroxi	de	1310-73-2	landfill	•	unknown	NA
							}
· · · · · · · · · · · · · · · · · · ·							
							
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		9	1		<u> </u>		ļ
				ļ			<u> </u>
V. FEEDSTO	OCKS (See Appendix for CAS Numb	ers)					
CATEGORY 01 FEEDSTOCK NAME		02 CAS NUMBER	CATEGORY	01 FEEDST	OCK NAME	02 CAS NUMBER	
FDS	Mercury		7439-97-6	FDS			·
FDS				FDS			
FDS				FDS			
FDS				FDS			. 24
VI. SOURCE	S OF INFORMATION (Cite	specific references, e.c.	. Stale files, sample analysis	reports)			

Waste Quantity - NUS Files, LCP Chemicals-PA, Background & History

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION 01 STATE 02 SITE NUMBER NJ D07930320

IL HAZARDOUS CONDITIONS AND INCIDENTS
TA COULDWATER CONTAMINATION OF ORCENIES OF
03 POPULATION POTENTIALLY AFFECTED: 200, 000 04 NARRATIVE DESCRIPTION
The potential for groundwater contamination exists as the closed Brine Sludge Lagoon
is not lined.
01 X 8. SURFACE WATER CONTAMINATION 02 I OBSERVED DATE.) X POTENTIAL I ALLEGED 04 NARRATIVE DESCRIPTION
The potential exists if the Brine Sludge Lagoon has not been properly closed, and
leachate runs into S. Branch Creek. The creek flows into the Arthur Kill which
is used for recreational purposes.
01 XC. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: Unknown 04 NARRATIVE DESCRIPTION SPOTENTIAL ALLEGED
The potential exists via airborn dust, if the Chem-Fix lagoon was not completely
excavated.
01 I D. FIRE EXPLOSIVE CONDITIONS NOTO C2 OBSERVED (DATE) T POTENTIAL II ALLEGED
01 D. FIRE EXPLOSIVE CONDITIONS NOTE 03 POPULATION POTENTIALLY AFFECTED: C2 TOBSERVED (DATE:
No potential exists for fire or explosion caused by the closed Brine Sludge Lagoon.
01 & E. DIRECT CONTACT 100 02 TOBSERVED DATE)
03 POPULATION POTENTIALLY AFFECTED: 100 04 NARRATIVE DESCRIPTION
The potential exist for worker exposure if the Brine Sludge Lagoon was not properly closed, or if the contents of the "Chem-Fix" lagoon were not completely removed.
A fence surrounds the site with a security guard house to prevent the general public
from entering onto the property.
O1 DXF CONTAMINATION OF SOIL 1.5 Acres O3 AREA POTENTIALLY AFFECTED: 1.5 Acres O4 NARRATIVE DESCRIPTION
The potential exists for soil contamination for the same reasons listed in section E
Direct contact.
01 T.G. DRINKING WATER CONTAMINATION 02 TOBSERVED DATE. POTENTIAL TALLEGED 03 POPULATION POTENTIALLY AFFECTED: NOTE 04 NARRATIVE DESCRIPTION
No potential exists for drinking water contamination. Linden receives its drinking
water from reservoirs in CLinton, N.J. approximately 30 miles away.
01 & H. WORKER EXPOSURE/INJURY 02 - OBSERVED (DATE:) & POTENTIAL - ALLEGED
03 WORKERS POTENTIALLY AFFECTED: <100 04 NARRATIVE DESCRIPTION
The closed Brine Sludge Lagoon is not within LCP's main compound, and approximately
100 feet from the main plant.
01 © 1. POPULATION EXPOSURE: INJURY 02 © OBSERVED DATE) © POTENTIAL © ALL EGED
01 TI. POPULATION EXPOSURE: INJURY 02 TOBSERVED DATE:
01 C I. POPULATION EXPOSURE:INJURY NOTE: 02 C OBSERVED DATE:) C POTENTIAL C ALLEGED
01 © I. POPULATION EXPOSURE:INJURY 02 © OBSERVED DATE:
01 T. POPULATION EXPOSURE: NJURY 02 TOBSERVED DATE:

.C.EDA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION
01 STATE 02 SITE NUMBER

The potential exists via surface water contamination. O1 M. UNSTABLE CONTARMMENT OF WASTES 02 OBSERVED (DATE: POTENTIAL ALLEGED None O4 NARRATIVE DESCRIPTION	WEIA		HAZARDOUS CONDITIONS AND	INCIDENTS NJ D	9303020
The potential exists for contamination of estuarine flora. The potential exists for contamination of estuarine flora.	. HAZARDOUS CONDIT	TONS AND INCIDENTS (Cartinued)			
IN S.K. DAMAGE TO FALMA IN MARRATIVE DESCRIPTION INCOME APPENDICEMENT The potential exists for contamination of estuarine fauna. IN S.L. CONTAMINATION OF FOOD CHAIN IN MARRATIVE DESCRIPTION The potential exists via surface water contamination. IN M. UNISTABLE CONTAMINENT OF WASTES IN D.L. D. W. WASTER IN D.L. D. WASTER DESCRIPTION NO problem were observed on the Site Inspection 9/27/84. The facility appeared to be properly capped and graded. Rainwater runoff features and vegetation were being installed on that date. IN D.L. D. W. MARRATIVE DESCRIPTION NO potential exists. IN D.L. D. D.L. D.L. D.L. D.L. D.L. D.L.	01 🔯 J. DAMAGE TO FLO 04 NARRATIVE DESCRIPT	RA ION	02 OBSERVED (DATE:). & POTENTIAL	□ ALLEGED
The potential exists for contamination of estuarine fauna. The potential exists via surface water contamination. The property capped and graded. Rainwater runoff features and vegetation were being installed on that date. The property capped and graded. Rainwater runoff features and vegetation were being installed on that date. The property coefficient of offster Property via Narrative Description No potential exists. The potential exists. The excavation of sewers storm Drains. www.ps. 02 CobserveD (DATE	The potential	exists for contami	nation of estuarine flo	ora.	
16 L CONTAMINATION OF FOOD CHAIN 16 NARRATIVE DESCRIPTION The potential exists via surface water contamination. 17 D M. UNSTABLE CONTAINMENT OF WASTES 18 POPULATION POTENTIALLY AFFECTED. None 18 No population POTENTIALLY AFFECTED. None 18 No problems were observed on the Site Inspection 9/27/84. The facility appeared to be properly capped and graded. Rainwater runoff features and vegetation were being installed on that date. 19 D No MARKET COFFSTRE PROPERTY 19 NO POTENTIAL DALEGED DATE: 10 NO POTENTIAL DALEGED DATE: 10 NO POTENTIAL DALEGED DATE: 11 NO POTENTIAL DALEGED DATE: 12 NO POTENTIAL DALEGED DATE: 13 POTENTIAL DALEGED DATE: 14 NARRATIVE DESCRIPTION No potential exists. 15 D P NILEGALJUNAUTHORIZED DUMPING 16 NARRATIVE DESCRIPTION The excavation of the "Chem-Fix lagoon and the closure of the Brine Sludge lagoon were both permitted and inspected by the NJDEP and the U.S. EPA. 15 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS An oily leachate was observed near S. Branch Creek which appeared to be coming from a series of large tanks on the property just south of LCP chemicals. 16 NOTAL POPULATION POTENTIALLY AFFECTED: 17 NOTAL POPULATION POTENTIALLY AFFECTED: 18 NOURCES OF INFORMATION COME ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS AN OILY Leachate was observed near S. Branch Creek which appeared to be coming from a series of large tanks on the property just south of LCP chemicals. 18 NOURCES OF INFORMATION COME ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS 18 NOURCES OF INFORMATION COME ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS 18 NOURCES OF INFORMATION COME AND OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS 18 NOURCES OF INFORMATION COME AND OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS 18 NOURCES OF INFORMATION COME AND OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS 18 NOURCES OF INFORMATION COME AND OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS 18 NOURCES OF INFORMATION COME AND OTHER KNOWN COME AND OTHE	D1 E K DAMAGE TO FAL D4 NARRÄTIVE DESCRIPT	JNA ION (Include namers) of species)	02 C OBSERVED (DATE:) & POTENTIAL	□ ALLEGED
The potential exists via surface water contamination. O	The potential	exists for contami	nation of estuarine fa	una.	
OIL ON UNSTABLE CONTAINMENT OF WASTES OIL ON UNSTABLE CONTAINMENT OF WASTES OIS POPULATION POTENTIALLY AFFECTED: None O4 NARRATIVE DESCRIPTION No problems were observed on the Site Inspection 9/27/84. The facility appeared to be properly capped and graded. Rainwater runoff features and vegetation were being installed on that date. OIL O NAMAGETO OFFSITE PROPERTY OIL O CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL O CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL O CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs 02 COBSERVED (DATE: OIL OF CONTAINMATION OF SEWERS STORM ORAINS. WWTPs			02 C OBSERVED (DATE:) & POTENTIAL	ALLEGED
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None 04 NARRATIVE DESCRIPTION No problems were observed on the Site Inspection 9/27/84. The facility appeared to be properly capped and graded. Rainwater runoff features and vegetation were being installed on that date. On D NAMAGETO OFFSITE PROPERTY ANARRATIVE DESCRIPTION No potential exists. On D C CONTAMINATION OF SEWERS STORM DRAINS. WWTPs 02 DESERVED (DATE	<u> </u>		· · · · · · · · · · · · · · · · · · ·	·	
to be properly capped and graded. Rainwater runoff features and vegetation were being installed on that date.	(Spills, Runoff Standing	aquids, Leaking drumsi		POTENTIAL	□ ALLEGED
O2 © OBSERVED (DATE:	to be properl	y capped and graded	Site Inspection 9/27/ . Rainwater runoff fe	84. The facility a atures and vegetat	ppeared ion were
ON CONTAMINATION OF SEWERS STORM DRAINS. WWTPs 02 COBSERVED (DATE:	1 . N. DAMAGE TO OFF	SITE PROPERTY	02 🖾 OBSERVED (DATE:) 🗀 POTENTIAL	□ ALLEGED
No potential exits. O	No potential	exists.			
No potential exits. OI TP ILLEGAL/UNAUTHORIZED DUMPING O2 TOBSERVED (DATE:			<u> </u>		•,
O1 T.P. ILLEGAL/UNAUTHORIZED DUMPING O2 TOBSERVED (DATE:			TPs / 02 C OBSERVED (DATE:	POTENTIAL	T ALLEGED
The excavation of the "Chem-Fix lagoon and the closure of the Brine Sludge lagoon were both permitted and inspected by the NJDEPand the U.S. EPA. DES DESCRIPTION OF ANY OTHER KNOWN POTENTIAL OR ALLEGED HAZARDS An oily leachate was observed near S. Branch Creek which appeared to be coming from a series of large tanks on the property just south of LCP chemicals. III. TOTAL POPULATION POTENTIALLY AFFECTED: V. COMMENTS V. SOURCES OF INFORMATION (Cite Specific references, e.g. state friest Sample analysis, records) NUS Region II FIT Files. LCP Chemicals - Site Inspection and Preliminary	No potential	exits.			
were both permitted and inspected by the NJDEPand the U.S. EPA. OS DESCRIPTION OF ANY OTHER KNOWN POTENTIAL OR ALLEGED HAZARDS An oily leachate was observed near S. Branch Creek which appeared to be coming from a series of large tanks on the property just south of LCP chemicals. II. TOTAL POPULATION POTENTIALLY AFFECTED: V. COMMENTS V. SOURCES OF INFORMATION (Cite Epochic references & g. 118/16 Mics Sample Serayara (200472) NUS Region II FIT Files. LCP Chemicals - Site Inspection and Preliminary			02 🗆 OBŠERVED (DATE:) □ POTENTIAL	□ ALLEGED
An oily leachate was observed near S. Branch Creek which appeared to be coming from a series of large tanks on the property just south of LCP chemicals. II. TOTAL POPULATION POTENTIALLY AFFECTED: V. COMMENTS V. SOURCES OF INFORMATION (Cite specific references. e.g. state tries sample enarysis records) NUS Region II FIT Files. LCP Chemicals - Site Inspection and Preliminary	The excavation were both per	on of the "Chem-Fix mitted and inspecte	lagoon and the closure d by the NJDEPand the	of the Brine Slud U.S. EPA.	ge lagoon
An oily leachate was observed near S. Branch Creek which appeared to be coming from a series of large tanks on the property just south of LCP chemicals. II. TOTAL POPULATION POTENTIALLY AFFECTED: V. COMMENTS V. SOURCES OF INFORMATION (Cite specific references . g. State tries sample enarysis reports) NUS Region II FIT Files. LCP Chemicals - Site Inspection and Preliminary	DESCRIPTION OF ANY	OTHER KNOWN POTENTIAL OR A	LLEGED HAZARDS		
V. COMMENTS V. SOURCES OF INFORMATION (Cite appears: reservences e.g. state tries sample enaryas reports) NUS Region II FIT Files. LCP Chemicals - Site Inspection and Preliminary	An oily leach	nate was observed ne	ar S. Branch Creek whi	ch appeared to be h of LCP chemicals	coming .
V. COMMENTS V. SOURCES OF INFORMATION (Cite appears: reservences e.g. state tries sample enaryas reports) NUS Region II FIT Files. LCP Chemicals - Site Inspection and Preliminary	<u>-</u>				
/. SOURCES OF INFORMATION (Cite specific reterences e.g. state tries sample enarysis reports) NUS Region II FIT Files. LCP Chemicals - Site Inspection and Preliminary		I POTENTIALLY AFFECTED:	- C		
NUS Region II FIT Files. LCP Chemicals - Site Inspection and Preliminary	v. COMMENTS			<u> </u>	
NUS Region II FIT Files. LCP Chemicals - Site Inspection and Preliminary					
NUS Region II FIT Files. LCP Chemicals - Site Inspection and Preliminary	V. SOURCES OF INFOR	MATION (Cito apocific reterences. * g state	tries sample analysis reports)	· · · · · · · · · · · · · · · · · · ·	
Accement			•	on and Preliminary	,

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION PART 4 - DEPMIT AND DESCRIPTIVE INFORMATION

		IFICATION	
01	STATE	02 SITE NUMBER	
,	NJ	D079303020	•

ACLY	PART 4 - PERMIT	AND DESCRIP	TIVE INFORMAT	ION	NJ D079303020
II. PERMIT INFORMATION					The state of the s
01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS	•
C A. NPOES					
☐ B. UIC					· · · · · · · · · · · · · · · · · · ·
□ C. AIR	21 20 20 20	<u> </u>			
D. RCRA		1			
C E. RCRA INTERIM STATUS	· · · · · · · · · · · · · · · · · · ·				
F. SPCC PLAN		1			
G. STATE (Specify)	 				
☐ H. LOCAL (Specify)		-	1,		
CI. OTHER (Specify)				 	
		-		 	
J. NONE	<u> </u>		<u> </u>	Ł	
III. SITE DESCRIPTION 01 STORAGE/DISPOSAL (Check all that apply) 0	2 AMOUNT 03 UNIT O	F MEASURE 04 T	SATUENT		05 OTHER
	,		REATMENT (Check of that	ирру)	D3 OTNEN
A. SURFACE IMPOUNDMENT	30,900 Cubi	,	INCENERATION		A. BUILDINGS ON SITE
☐ B. PILES ☐ C. DRUMS, ABOVE GROUND			UNDERGROUND INJ		
D. TANK, ABOVE GROUND			CHEMICAL/PHYSICA BIOLOGICAL	AL	
E. TANK, BELOW GROUND			WASTE OIL PROCES	SING	06 AREA OF SITE
☐ F. LANDFILL		' I = -	SOLVENT RECOVER		
□ G.:LANDFARM		□ G.	OTHER RECYCLING	RECOVERY	(Acres)
☐ H. OPEN:DUMP		 С н.	OTHER	ecify)	
' . OTHER	<u> </u>	1	(3)	e cay)	
07 COMMENTS					The same of the state of the s
Contents of an experim Brine-Sludge Lagoon an management features an	d the lagoon w d vegetative c	as closed. over were	A clay constalled b	ap, draina petween 198	age 32 and 1984.
IV. CONTAINMENT				-	
01 CONTAINMENT OF WASTES (Check one) M. A. ADEQUATE, SECURE	□ B. MODERATE	C. INADEQ	UATE, POOR	C D. INSECUF	RE, UNSOUND, DANGEROUS
or description of DRUMS, DIKING, LINERS, BU Closure procedures for compaction and dewater final cover of soil ar drainage and inhibit of 100-year flood stage of	the 62,500 sq ing of all was	te, a 2 f A rip-rat	t. cap of co	ompacted c installed t	lay, and to manage site
V. ACCESSIBILITY					
01 WASTE EASILY ACCESSIBLE: YES 02 COMMENTS					
Waste is securely clos	sed in the Brin	ie-Sludge I	Lagoon.		
VI. SOURCES OF INFORMATION (Cite see	chic references, e.g. state files, sami	pie analysis, reports)			
NUS Reigon II Fit File	es - LCP Chemic	als, Site	Inspection	and Prelim	minary Assessment.

POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION

≎EPA	SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA O1 STATE 02 SITE NUMBER NJ D079303020						
II. DRINKING WATER SUPPLY	· · · · · · · · · · · · · · · · · · ·						
01 TYPE OF DRINKING SUPPLY		02 STATUS		0	3 DISTANCE TO SITE		
(Check as applicable) SURFACE	WELL	ENDANGERE	D AFFECTED	MONITORED			
COMMUNITY A. DS	B. 🗆	'A. 🗆	8. □	C. 80 A	(,(mi)		
NON-COMMUNITY C.	Ď. 🗆	D. 🗆	E . □	F. 🗆 E	3(mi)		
III. GROUNDWATER		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1					
01 GROUNDWATER USE IN VICINITY (Check	one)						
☐ A. ONLY SOURCE FOR DRINKING	B. DRINKING (Other sources available COMMERCIAL; INDI (No other water sources	JSTRIAL, IRRIGATIO	(Limited other sou	, INDUSTRIAL, IRRIGATION rces available)	D. NOT USED, UNUSEABLE		
02 POPULATION SERVED BY GROUND WAT	ren <u> </u>		03 DISTANCE TO NEARE	ST DRINKING WATER WELL	N/A (mi)		
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROU	NOWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER		
6(ft)	To Arth	ur Kill	40-50 (ft)	626,400 (gpd)	□ YES \$0 NO		
locking caps. 10 RECHARGE AREA YES COMMENTS S. Brain foot tidal infoot tidal infoot tidal infoot the local group. IV. SURFACE WATER Period O1 SURFACE WATER USE (Check one) A. RESERVOIR, RECREATION DRINKING WATER SOURCE	luence which ndwater gradis of high and	affects ent during	□ NO creek water	and changes t gradient at h	reek is a tidal he local ground- nigh and low tide stages		
02 AFFECTED/POTENTIALLY AFFECTED BO	ODIES OF WATER	· · · · · · · · · · · · · · · · · · ·		**************************************			
NAME:		٠		AFFECTED	DISTANCE TO SITE		
Arthur Kill River S. Branch Creek				0	0 (mi)		
	1 200			[_]	(mi)		
V. DEMOGRAPHIC AND PROPERT	Y INFORMATION						
01 TOTAL POPULATION WITHIN	_ ` 		C	2 DISTANCE TO NEAREST PO	PULATION		
ONE (1) MILE OF SITE TV	VO (2) MILES OF SITE	THREE (3) MILES OF SITE	•			
A. 7	3. 20,011 NO. OF PERSONS	C	62,527 10. OF PERSONS	1,	. <u>5</u> (mi)		
03 NUMBER OF BUILDINGS WITHIN TWO (2			04 DISTANCE TO NEAR	ST OFF-SITE BUILDING			
717				.2	_(mi)		
		<u> </u>					

OS POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site. e.g., rural, village, densely populated urban area)

The area surrounding the site within a 1.5 mile radius is completely industrialized Chemical and Oil companies maintain plants or storage facilities over much of the area. The remaining land is undeveloped marsh on the flood plain adjacent to the Arthur Kill River. The New Jersey State Turnpike runs within 3/4 mile of the site. Immediately outside the 1.5 mile radius are residential and densely populated urban areas of West Carteret, Linden and Elizabeth.

POTENTIAL HAZARDOUS WASTE SITE

L IDENTIFICATION

SFP Δ		CTION REPORT	01 STATE 02 SITE NUMBER
VLI/	PART 5 - WATER, DEMOGRAPH	HIC, AND ENVIRONMENTAL DATA	NJ D09303020
VI. ENVIRONMENTAL INFORMA			
□ A. 10=6 - 10-		7 C 10-4 = 10-3/	B
		☐ C. 10-4 - 10-3 cm/sec ☐ D. GREATER 1	IMAN 10-3 cm/sec
02 PERMEABILITY OF BEDROCK (Check of			
A. IMPERM (Less than 1	IEABLE 3 RELATIVELY IMPERMEAB		VERY PERMEABLE Greater than 10 = 2 cm/sec)
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL pH	
40-50 (m)	Unknown (n)	7	
06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE	
12(in)	(in)	SITE SLOPE DIRECTION OF SITE SL	OPE TERRAIN AVERAGE SLOPE
9 FLOOD POTENTIAL	[10	- Flat-Tying	
SITE IS IN 100 YEAR FLOO	ODPLAIN STE IS ON BARRI	IER ISLAND, COASTAL HIGH HAZARD AREA, I	RIVERINE FLOODWAY
1 DISTANCE TO WETLANDS (5 acre minimu		12 DISTANCE TO CRITICAL HABITAT (of endangered	(apocing)
ESTUARINE	OTHER	0	(mi)
A(mi)	8. <u> </u>	ENDANGERED SPECIES: Pereg	rin Falcon
3 LAND USE IN VICINITY		CHOANGERED GF COICG.	
DISTANCE TO:			
COMMERCIAL/INDUSTRIA	RESIDENTIAL AREAS; NATIOI AL FORESTS, OR WILDLIF	NAL/STATE PARKS AGRIC FE RESERVES PRIME AG LAND	CULTURAL LANDS
		The state of the s	AG DAD
A (mi)	B1.5	(mi)	(mi) D. >10 (mi)
4 DESCRIPTION OF SITE IN RELATION TO	O SUBBOUNDING TOPOGRAPHY		(1111)
			•
Creek borders the	Sludge Lagoon is situate	ed east of the main plan	t. So. Branch
circles the landfi	ill approximately seven	on and eastern sides. An	access road
Branch Creek. The	closed laces seven	feet above the high tide	level of S.
to 15 feet above t	the creek Five monitor	an area of 62,900 sq. fee	t and rises 12
Three wells are si	tuated along to Branch	ring wells are located are Creek, a fourth is nort	ound the landfill.
landfill, and the	fifth is southwest and	across the access road.	hwest of the
topography is flat	:-lving and the Landfill	rises at an angle of re	The surrounding
approximately twel	lve feet above grade.	rises at all angle of re	pose to a point
•			•

VII. SOURCES OF INFORMATION (Cite apecific references, e.g., state fles, jumple energies, reports)

NUS Region II FIT Files - Site Inspection, Preliminary Assessment.

\$EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6 - SAMPLE AND FIELD INFORMATION

I, IDENTIFICATION

01 STATE 02 SITE NUMBER

NJ D079303020

I. SAMPLES TAKEN			
SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABL
GROUNDWATER	3	organic - Rockwell Int, inorganic - JTC	
SURFACE WATER	2	organic - Rockwell Int, inorganic - JTC	
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	2	organic and inorganic - JTC	
VEGETATION			11.70
OTHER Sediment	2	organic and inorganic - JTC	
II. FIELD MEASUREMENTS	AKEN		
1 TYPE	02 COMMENTS		
Mercury Detector	No levels	above background were recorded (NUS Detecto	r inoperable
	LCP suppl:	ied identical model in working condition.	مانورند و معروب و المعروب و
HCL Draeger Tub	The appar	atus indicated that there was no HCl in the	ambient
	air at t	he site on 9/27/84.	
V. PHOTOGRAPHS AND MA	PS		· ····································
01 TYPE & GROUND - AERI		02 IN CUSTODY OF EPA - photo log attached to Sit	e Inspection
ZYES A	onofmaps sketch map wa te Inspection	as compiled at the Site Inspection and is at	tached to th
V. OTHER FIELD DATA COL	ECTED (Asserts secreture de		

A field logbook, including sampling team members, weather conditions, samples collected and a chronological list of events which took place during the site inspection. Field Notebook #1017 TDD #02-8403-54A

VI. SOURCES OF INFORMATION (Cre specific references, e.g., state fries, sample enalysis, reports)

NUS Region II FIT Files - Site Inspection.

LCP Chemicals, Inc STREET ADDRESS (P. O. Box. RFD #. etc.) P. O. ROX 484 CITY Linden N.T NAME STREET ADDRESS (P. O. Box. RFD #. etc.) GITY O6 STAT O7 STREET ADDRESS (P. O. Box. RFD #. etc.) SCITY O8 STAT O9 STAT O9 STAT O9 STAT O9 STAT NAME STREET ADDRESS (P. O. Box. RFD #. etc.) SCITY O9 STAT O9	04 SIC CODE 2812 E 07 ZIP CODE 04 SIC CODE 07 O SIC CODE 04 SIC CODE 04 SIC CODE 07 ZIP CODE 04 SIC CODE 04 SIC CODE 04 SIC CODE	PARENT COMPANY IT ADDRESSION OF NAME LCP Chemicals and P 10 STREET ADDRESSIP O BOX. RFD # etc.; 12 CITY 08 NAME 10 STREET ADDRESSIP O. BOX. RFD #. etc.; 12 CITY 08 NAME 10 STREET ADDRESS IP O. BOX. RFD #. etc.; 12 CITY 08 NAME 10 STREET ADDRESS IP O. BOX. RFD #. etc.; 11 CITY 12 CITY 13 CITY 14 CITY 15 NAME	lastics 13 STATE 13 STATE	11 SIC CODE 14 ZIP CODE 11 SIC CODE 14 ZIP CODE 11 SIC CODE
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1 NAME 1 NAME 1 NAME 103 STREET ADDRESS (P. O. Bus. RFD # etc.). 105 CITY 106 STA 107 STA 108 S	02 D+B NUMBER	12 CITY 08 NAME	13 STATE	14 ZIP CODE
1 NAME D3 STREET ADDRESS (P. O. Bas. RFD # etc.). D5 CITY O6 STA UII. PREVIOUS OWNER(S) (List most recent first) D1 NAME GAF O3 STREET ADDRESS (P. O. Bas. RFD #, etc.)	02 0+8 NUMBER	ÖB NAME		09 0 + 8 NUMBER
1 NAME D3 STREET ADDRESS (P. O. Box. RFD # etc.). D5 CITY O6 STA OBJECT ADDRESS (P. O. Box. RFD # etc.). O7 STA O8 STA O9 STA O9 STREET ADDRESS (P. O. Box. RFD # etc.).	02 0+8 NUMBER	ÖB NAME		09 0 + 8 NUMBER
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III. PREVIOUS OWNER(S) (List most recent first) 11 NAME GAF 03 STREET ADDRESS (P. O. Box. RFD #, etc.)		10 STREET ADORESS IP. O. Box. RFO F. etc.	,	11 SIC CODE
III. PREVIOUS OWNER(S) (List most recent first) 11 NAME GAF 03 STREET ADDRESS (P. O. Box. RFD #, etc.)		110 STREET ADDRESS IP.O. Box. HPU P. MC.	.,	11000000
III. PREVIOUS OWNER(S) (List most recent first) DI NAME GAF 03 STREET ADDRESS (P. O. Bos. RFD #. etc.)		·		1
III. PREVIOUS OWNER(S) (List most recent first) 11 NAME GAF 03 STREET ADDRESS (P. O. Box, RFD #, etc.)			I 2 STATE	14 ZIP CODE
OT NAME GAF 03 STREET ADDRESS (P. O. Box. RFD #. etc.)	TE 07 ZIP CODE	12 CITY	133,216	1421-0002
OT NAME GAF 03 STREET ADDRESS (P. O. Box. RFD #. etc.)				<u></u>
DI NAME GAF 03 STREET ADDRESS (P.O. Box. RFD #. etc.)	<u> </u>	IV. REALTY OWNER(S) IN ADDICABLE	list most recent first)	02.D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	02.0+8 NUMBER	O' NAME		02.5 + 5 110.000
logste				04 SIC CODE
OS CITY OBSTA	04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD F. etc	c.J	04 0.0 0000
05 CITY OBSTA			ING STATE	E 07 ZIP CODE
	TE 07 ZIP CODE	05 CITY	0031210	10, 2, 5552
	·			02 D+8 NUMBER
01 NAME	02 D+B NUMBER	01 NAME		
Dupont				04 SIC CODE
03 STREET ADDRESS (P.O. Box: AFD 4. etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD #. et	(C.)	
		OS CITY	Q6 STAT	E 07 ZIP CODE
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		O1 NAME	 	02 D+B NUMBER
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		OR CODY	O6 STAT	E 07 ZIP CODE
05CITY 06ST	ATE 07 ZIP CODE	OS CITY		1
				<u> </u>
V. SOURCES OF INFORMATION (Cite specific refere	nces. e.g., state files, sample a	nalysis, reports)		

\$EPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT BARTS OPERATOR INFORMATION

	I. IDENTIFICATION		
Į	O1 STATE	02 SITE NUMBER	
Į	l NIT	D07930303	

II. CURRENT OPERATOR		ower!		OPERATOR'S PARENT CO		
	I LEIGNOS E OMSIGHT ION	, gamen,	02 D+B NUMBER	10 NAME	11	D+8 NUMBER
I NAME		į		LCP Chemicals	and Plastics	
LCP Chemical:			04 SIC CODE	12 STREET ADDRESS (P O. BOX. RF		1.3 SIC CODE
3 STREET ADDRESS (P.O. Box.	AFD #, etc.)			12 STREET RESIDENCE	•	ŀ
P.O. Box 484			2812		15 STATE 1	8 ZIP CODE
5 CITY		06 STATE	07 ZIP CODE	14 CITY	1.55	
Linden		NJ	07036			
	9 NAME OF OWNER					
1 9 70- Present	T.CD Cher	micale				
				PREVIOUS OPERATORS'	PARENT COMPANIES #=	policebie)
III. PREVIOUS OPERATO	JK(2) (List mass recent)	rai, provide or	02 D+B NUMBER	10 NAME		1 0+8 NUMBER
1 NAME				,		
GAF	<u> </u>		IQ4 SIC CODE	12 STREET ADDRESS (P.O. Box. F	FD #, etc.)	13 SIC CODE
03 STREET ADDRESS (P.O. Box			34 310 0000	12 Ottobri Vocanizati i i i i i i i i i i i i i i i i i i	•	1
Foot of S. W	ood Avenue	· • · · · · · · · · · · · · · · · · · ·	4.1	14 CITY	15 STATE	16 ZIP CODE
05 CITY		OG STATE	07 ZIP CODE	14 GILY		
Linden		NJ	07036			
OB YEARS OF OPERATION	09 NAME OF OWNER	DURING TH	IS PERIOD			
	CAE		1			
1942 - 1970	GAF		02 D+B NUMBER	10 NAME		11 D+8 NUMBER
01 NAME						
Dupont			104 SIC CODE	12 STREET ADDRESS (P.O. Box.	RFD #, elc.)	13 SIC CODE
03 STREET ADDRESS (P O. Bo)	t; RFO #, e tc.)		[7,	,		1
				114 CITY	15 STATE	16 ZIP CODE
05 CITY		06 STAT	E 07 ZIP CODE	·		}
L.						
08 YEARS OF OPERATION	09 NAME OF OWNE	R DURING T	HIS PERIOD			
·	Disant		**************************************	·		
1900 - 1942	Dupont		02 D+B NUMBER	10 NAME		11 D+B NUMBER
01 NAME						
			TO4 SIC CODE	12 STREET ADDRESS (P.O. Box	RFD #, etc.)	13 SIC CODE
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				- 14 077	15 STATE	16 ZIP CODE
05 CITY		06 STA	E 07 ZIP CODE	14 CITY		1
1		1				
08 YEARS OF OPERATION	09 NAME OF OWN	R DURING	THIS PERIOD		•	
			ss. e.g., state ties, sample at			

NUS Region II FIT Files - Site Inspection, Preliminary Assessment Telephone conversation with Linden City Clerk's Office.

	- P(OTENTIAL HAZ	ARDOUS WASTE SITE	I. IDENTIFIC	
ŞEPA		SITE INSPE	CTION REPORT	NJ D	079303020
WLI M	PART 9	- GENERATOR/T	RANSPORTER INFORMATION		079303020
IL ON-SITE GENERATOR					
I NAME	I	02 D+8 NUMBER			
LCP Chemicals	ļ			•	
3 STREET ADDRESS (P.O. Box. RFD #, erc.)		04 SIC CODE			
P.O. Box 484	,	2812		•	
PS CITY	06 STATE	07 ZIP CODE	-		
	NJ	07036			
Linden	_ [NO]	07030		Maryon com	
III. OFF-SITE GENERATOR(S)		02 D+B NUMBER	01 NAME	To To	2 D+B NUMBER
) I NAME				į	
3 STREET ADDRESS (P O Box, RFD e etc.)		104 SIC CODE	03 STREET ADDRESS (P.O Box. RFD P. etc.)		04 SIC CODE
Joines, Application of Services			"		l.
is CITY	108 STATE	07 ZIP CODE	OS CITY	06 STATE	07 ZIP CODE
3 W1 1		 -			
1 NAME	L	02 D+8 NUMBER	01 NAME		02 D+8 NUMBER
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3 STREET ADDRESS (P.O. Box, RFD # etc.)		04 SIC CODE	O3 STREET ADDRESS (P.O. Bos, RFD P. etc.)		04 SIC CODE
JINEEL ABUNESS (F. V. DM, AFV F. BUL)		3.0.0.0.0.0.0			
	IO6 STATE	07 ZIP CODE	OS CITY	OS STATE	07 ZIP CODE
DS CITY				1 1	
				لسباب	
IV. TRANSPORTER(S)		TO2 D+8 NUMBER	01 NAME	· · · · · · · · · · · · · · · · · · ·	02 D+B NUMBER
NAME		OZ DTB NUMBER	UI NAME.		or o romor.
			03 STREET ADDRESS (P.O. Box. RFD #, etc.)*		04 SIC CODE
3 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	US STREET ADDRESS (P.O. BOX. APD F. BIC.)		00000
				Inc er a TE	07 ZIP CODE
S CITY	06 STATE	07 ZIP CODE	OS CITY	0831715	U/ ZIP CODE
	1				
		02 D+B NUMBER	01 NAME		02 D+8 NUMBER
O1 NAME	, 1		1		
DI NAME					
		04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD +, etc.)		04 SIC CODE
	-		03 STREET ADDRESS (P. O. Bas. RFD #, etc.)		
D3 STREET ADDRESS (P.O. Box. RFD #, etc.)	O6 STATE		03 STREET ADDRESS (P. O. 804, RFD *, etc.)	OB STATE	04 SIC CODE
D3 STREET ADDRESS (P.O. Box. RFD #, etc.)	O6 STATE	04 SIC CODE		OG STATE	
3 STREET ADDRESS (P. O. BOX. RFD #, etc.)		04 SIC CODE	05 CITY	OG STATE	
DI NAME DI STREET ADDRESS (P.O. BOX, AFD P. OIC.) DIS CITY V. SOURCES OF INFORMATION (CAO 20)		04 SIC CODE	05 CITY	06 STATE	
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3 STREET ADDRESS (P.O. Box. RFD J. etc.) S CITY V. SOURCES OF INFORMATION (Cro. 20) NUS Region II FIT Fi	les - S	04 SIC CODE	oscity ion, Preliminary Assessm		
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SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10. PAST RESPONSE ACTIVITIES

	l.	IDENT	IFICATION	
1	01		02 SITE NUMBER	
1		NJ	D079303020	

PART 10-	PAST RESPONSE ACTIVITIES	
ST RESPONSE ACTIVITIES		OCTOR VICENCY
OL C. A. WATER SUPPLY CLOSED	02 DATE	03 AGENCY
04 DESCRIPTION		
SUPPLY SPOVIDED	02 DATE	O3 AGENCY
01 G B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	V. U	
	i dec	
01 C. PERMANENT WATER SUPPLY PROVIDED	02 DATE	03 AGENCY
04 DESCRIPTION	•	
01 C D SPILLED MATERIAL REMOVED	02 DATE	03 AGENCY
04 DESCRIPTION		
		03 AGENCY EPA, NJDEP
01 & E. CONTAMINATED SOIL REMOVED	02 DATE 9/9/83	O3 AGENCY EFA, NODEF
	"Chem-Fix" Lagoon W	ere excavated and placed in
The contents of an experimental Brine Sludge Lagoon.	O2 DATE	03 AGENCY
01 ☐ F. WASTE REPACKAGED 04 DESCRIPTION	VE.UNIE	
An American		
01 G. WASTE DISPOSED ELSEWHERE	02 DATE	O3 AGENCY
04 DESCRIPTION	1	•
	02 DATE 8/84	03 AGENCY
	02 DATE 07 0 4	00 AGENO1
01 R H ON SITE BURIAL 04 DESCRIPTION		d capped. Operations procee
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SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

L IDENTIFICATION
O1 STATE 02 SITE NUMBER
NJ D079303020

ACIV	PART 10 - PAST RESPONSE ACTIVITIES	NJ D0/9303020
II PAST RESPONSE ACTIVITIES (Continued)		
01 C R. BARRIER WALLS CONSTRUCTED	O2 DATE	03 AGENCY
04 DESCRIPTION		
	10784	03 AGENCY EPA NJDEP
01 & S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY THE AND DEL
A 2 foot compacted clay c	ap with vegetative cover and	
01 T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY
U4 DESCRIPTION		
01 D U. GROUT CURTAIN CONSTRUCTED	02 DATE	03 AGENCY
04 DESCRIPTION		· ·
	<u> </u>	
01 U BOTTOM SEALED 04 DESCRIPTION	O2 DATE	03 AGENCY
	· · · · · · · · · · · · · · · · · · ·	·
01 □ W. GAS CONTROL	02 DATE	03 AGENCY
04 DESCRIPTION	•	
01 C X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
U4 DESCRIPTION		*
01 E Y LEACHATE TREATMENT	02 DATE	03 AGENCY
04 DESCRIPTION	UZ BATE	US AGENOT
	in the second second	<u> </u>
01 Z AREA EVACUATED	O2 DATE	03 AGENCY
04 DESCRIPTION		
	02 DATE 1982 - 1984	03 AGENCY EPA NJDEP
01 区 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION		
Plant operations were shu Lagoon.	it down during closure of the	
01 2 2. POPULATION RELOCATED	O2 DATE	03 AGENCY
04 DESCRIPTION		
	02 DATE 1982-1983	
01 🗔 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY
Five monitoring wells wer	re installed around the Brine	Sludge and Chem-Fix Lagoons.
	1	
	,	
III. SOURCES OF INFORMATION (Cité specific refere	nces. e gr. state files. samble enarysis, reports)	
NUS Region II FIT Files	- Site Inspection and Prelim	inary Assessment.
NJDEP Files		
I .		



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION

01 STATE 02 SITE NUMBER

NJ D079303020

IL ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION X YES - O NO

02 DESCRIPTION OF FEDERAL STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

Following shut down of plant activities in 1982, LCP has carried out all DEP and EPA directives including diking, and closure of the Chem-Fix and Brine Sludge Lagoons. LCP presently conducts a semi-annual sampling program and analyzes for an abbreviated list of substances. A xerox copy of this list is attached.

III. SOURCES OF INFORMATION (Cité spécific références, e g. stigle liées, sample analysis, réports)

NUS Region II FIT Files - Preliminary Assessment. NJDEP Files.

APPENDIX A

MAPS AND PHOTOS

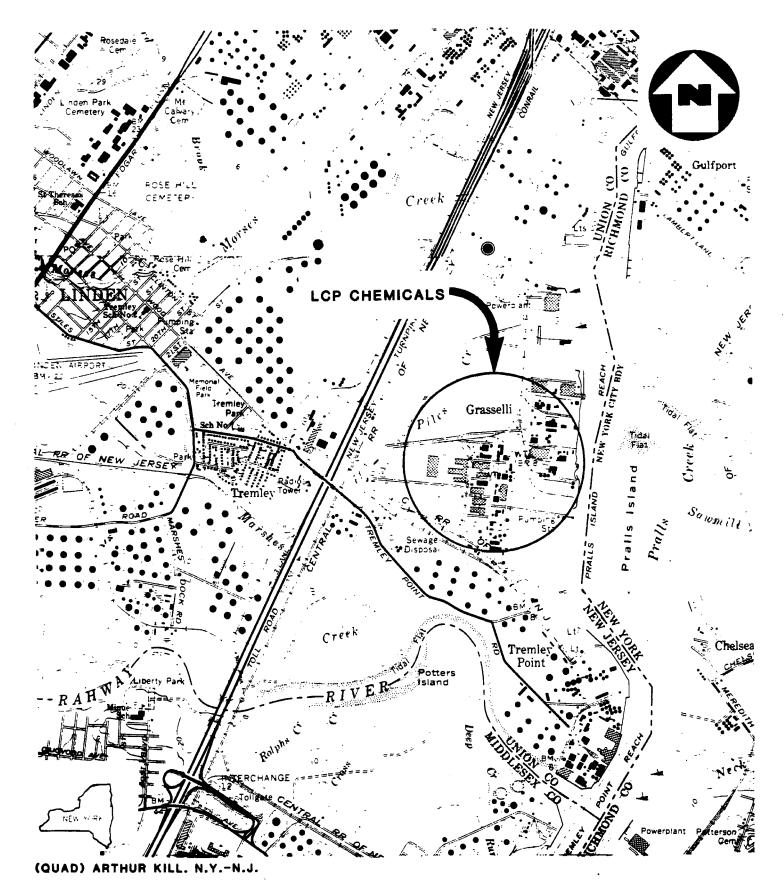
MAPS AND PHOTOS

Figure A-1 provides a Site Location Map.

Figure A-2 provides a Site Map.

Figure A-3 provides a Sample Location Map.

Exhibit A-1 provides photographs of the site.

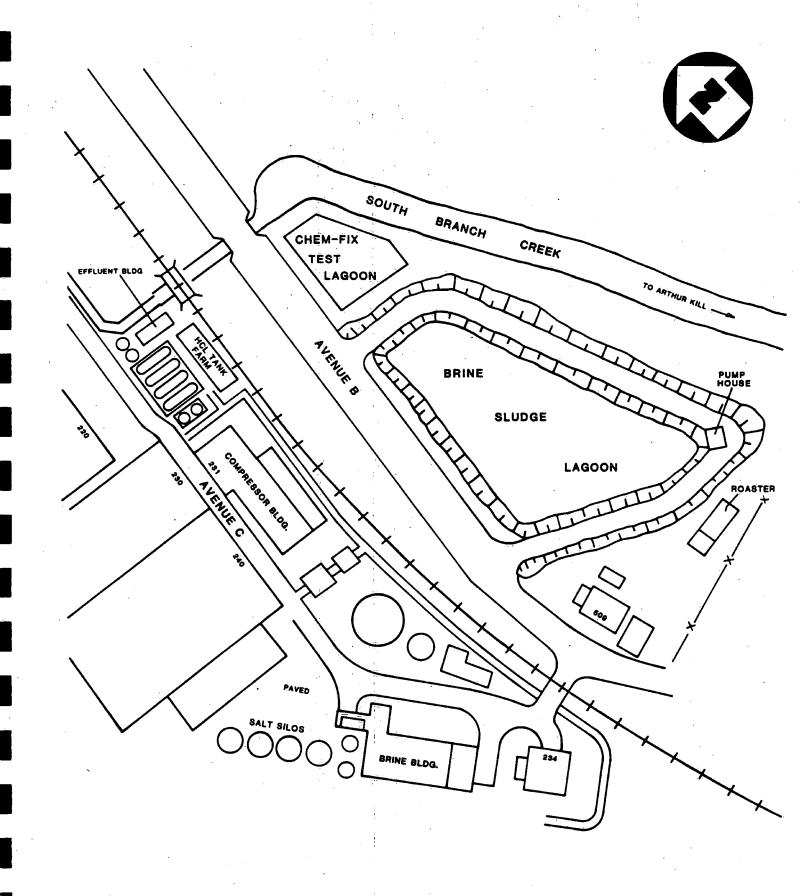


SITE LOCATION MAP

LCP CHEMICALS SITE, LINDEN, N.J.

SCALE: 1"= 2000"



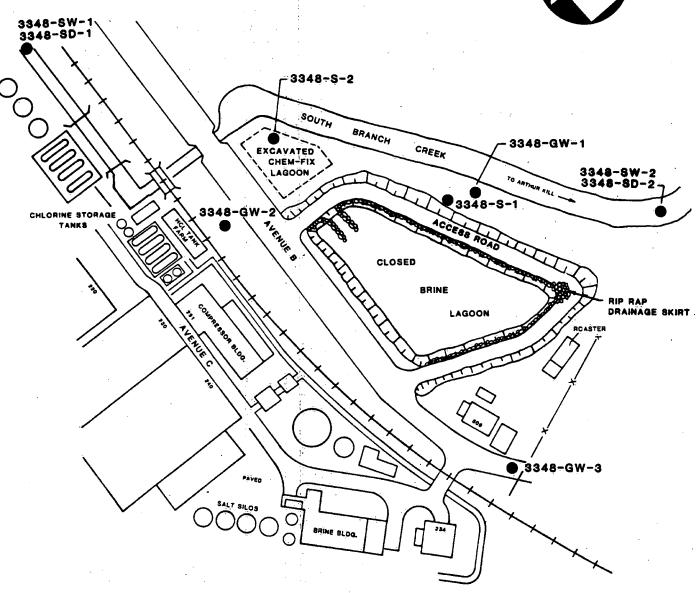


SITE MAP LCP CHEMICALS SITE, LINDEN, N.J.

SCALE: 1"= APPROX. 100"







SAMPLE LOCATION MAP

LCP CHEMICALS SITE, LINDEN, N.J.

(NOT TO SCALE)

FIGURE A-3

FIGURE A-3

CORPORATION

A Halliburton Company

PHOTOGRAPH INDEX

LCP CHEMICALS
LINDEN, NEW JERSEY

SEPTEMBER 27, 1984

Photo Number	Description	<u>Time</u>
Ι.	September 27, 1984 Dennis Farley (NUS) and Mike Nicholas (NUS) collect sample 3348-GW-3, a groundwater sample, from monitoring well #5. Figure 3 provides a sample location map.	1255 hrs.
2.	September 27, 1984 Dennis Farley (NUS) and Mike Nicholas (NUS) collect sample 3348- GW-1, a groundwater sample, from monitoring well #2. Figure 3 provides a sample location map.	1337 hrs.
3.	September 27, 1984 Mike Nicholas (NUS) collects sample 3348-SW-1, an upstream surface water sample, from S. Branch Creek. Greg Burchette (NUS) carries the clean sampling equipment. Figure 3 provides a sample location map.	1423 hrs.
4.	September 27, 1984 Mike Nicholas (NUS) collects sample 3348-SD-1, an upstream sediment sample from S. Branch Creek. Greg Burchette (NUS) carries the clean sampling equipment. Figure 3 provides a sample location map.	1427 hrs.
5.	September 27, 1984 Dennis Farley (NUS) and Mike Nicholas (NUS), collect sample 3348-GW-2, a groundwater sample, from monitoring well #4. Figure 3 provides a sample location map.	1437 hrs.
6.	September 27, 1984 Dennis Farley (NUS) collects sample 3348-SW-2 a downstream surface water sample, from S. Branch Creek. Figure	1517 hrs.

3 provides a sample location map.

Photo Number

7.

8.

9.

Description

September 27, 1984
Dennis Farley (NUS) collects
sample 3348-SD-2, a downstream
sediment sample, from S. Branch
Creek. Figure 3 provides a
sample location map.

September 27, 1984
Dennis Farley (NUS) collects
sample 3348-S-1, a soil
sample between S. Branch Creek
and the Closed Brine Sludge Lagoon.
Figure 3 provides a sample location
map.

September 27, 1984
Dennis Farley (NUS) collects
sample 3348-S-2, a soil
sample, from the area of the
excavated "Chem-Fix Lagoon."
Figure 3 provides a sample location
map.

Time

1513 hrs.

1540 hrs.

1547 hrs.





1. September 27, 1984 1255 hrs.
Dennis Farley (NUS) and Mike Nicholas (NUS) collect sample 3348-GW-3, a groundwater sample, from monitoring well #5 Figure 3 provides a sample location map.



2. September 27, 1984

Dennis Farley (NUS) and Mike Nicholas (NUS) collect sample 3348-GW-1, a groundwater sample, from monitoring well #2. Figure 3 provides a sample location map.





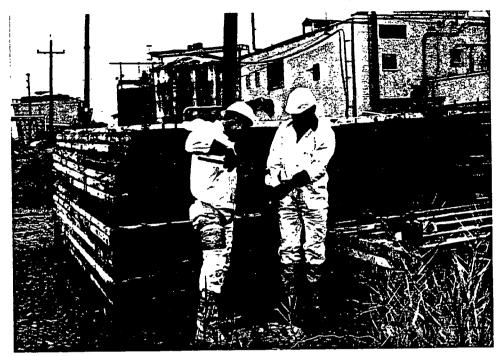
September 27, 1984 1423 hrs.
Mike Nicholas (NUS) collects sample 3348-SW-1, an upstream surface water sample, from S. Branch Creek. Greg Burchette (NUS) carries the clean sampling equipment. Figure 3 provides a sample location map.

З.



September 27, 1984 1427 hrs.
Mike Nicholas (NUS) collects sample 3348-SD-1, an upstream sediment sample from S. Branch Creek. Greg Burchette (NUS) carries the clean sampling equipment. Figure 3 provides a sample location map:





September 27, 1984 1437 hrs.
Dennis Farley (NUS) and Mike Nicholas (NUS), collect sample 3348-GW-2, a groundwater sample, from monitoring well #4. Figure 3 provides a sample location map.

5.



6. September 27, 1984

Dennis Farley (NUS) collects sample 3348-SW-2 a downstream surface water sample, from S. Branch Creek. Figure 3 provides a sample location map.



7. September 27, 1984 1531 hrs.
Dennis Farley (NUS) collects sample 3348-SD-2, a downstream sediment sample, from S. Branch Creek. Figure 3 provides a sample location map.



8. September 27, 1984 1540 hrs.
Dennis Farley (NUS) collects sample 3348-S-1, a soil sample between S. Branch Creek and the Closed Brine Sludge Lagoon. Figure 3 provides a sample location map.





9. September 27, 1984 1547 hrs. .
Dennis Farley (NUS) collects sample 3348-S-2, a soil sample, from the area of the excavated "Chem-Fix Lagoon." Figure 3 provides a sample location map.

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference. Include the location of the document.

FACILITY NAME:	LCP Chemicals
LOCATION:	Foot of S. Wood Avenue, Linden, New Jersey
DATE SCORED:	12/12/84
PERSON SCORING:	J.S. Cattafe

PRIMARY SOURCE(S) OF INFORMATION (e.g., EPA region, state, FIT, etc.):
NUS Region II FIT files - Site Inspection, Preliminary Accessment
NJDEP files

FACTORS NOT SCORED DUE TO INSUFFICIENT INFORMATION:

COMMENTS OR QUALIFICATIONS:

Direct contact was scored using a documented release of mercury to surface water and sediment in S. Branch Creek which borders the landfill. The analytical results of samples collected during the Site Inspection document a release of mercury to both the groundwater and surface water. Elevated concentrations of lead, arsenic and chromium were also detected, however there appears to be no evidence relating these contaminants to LCP Chemicals at the present time. Air route scored zero because samples taken won't confirm air contamination. This route should be scored zero based on SI readings.

GROUNDWATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

Mercury, Lead, Arsenic, Chromium

Ref: #10

Rationale for attributing the contaminants to the facility:

LCP Chemicals formerly used mercury as part of their chlorine production process. There appears to be no proof to connect lead, arsenic and chromium to LCP at the present time. Although Well #5 was designed as an upgradient well, the extent of the tidal influence on groundwater flow is unknown. This arises some questions as to the positioning of well #5 as an upgradient well.

Ref: #4

* * *

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

Brunswick formation - a sequence of alluvial sandstones and shales in which groundwater is transmitted through joints and bedding-plane fractures. The fractures are generally enlarged in one direction causing groundwater to move preferentially along this set of fractures. There appears to be no overall trend in the direction of the enlarged fractures.

Ref: #1, #3

Depth(s) from the ground surface to the highest seasonal level of the saturated zone water table(s) of the aquifer of concern:

Approximately 40-50 feet.

Ref: #3

Depth from the ground surface to the lowest point of waste disposal/storage:

The waste is contained in a landfill constructed above grade and is actually a few feet above the natural ground surface.

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

45 inches

Ref: #7

Mean annual lake or seasonal evaporation (list months for seasonal):

33 inches

Ref: #7

Net precipitation (subtract the above figures):

12 inches

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Alluvium - silts, clays and some fine-grained sand Ref: #4

Permeability associated with soil type:

10-5-10-7 cm/sec

This range is based on general flood plain sediment permeabilities.

Ref: #6

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Solid. - The waste is composed of dewatered and compacted brine sludge and mercury contaminated carbon.

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Waste is contained in a closed (capped) brine sludge lagoon. The lagoon is unlined allowing a release of contaminants to the local groundwater.

Ref: #4

Method with highest score:

Surface impoundment with no liner. Ref: #5

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Mercury (elemental, inorganic) Ref: #4

Compound with highest score:

Mercury (elemental, inorganic)
Ref: #5

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

30,900 cubic yards

Ref: #4

Basis of estimating and/or computing waste quantity:

LCP estimated the quantity of waste in the Brine Sludge lagoon as of February, 1983, just prior to closure.

5 TARGETS

Groundwater Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Groundwater is used for industrial purposes in the city of Linden, New Jersey. Ref: #3

Distance to Nearest Well

Location of nearest well drawing from <u>aquifer of concern</u> or occupied building not served by a public water supply:

Along S. Wood Ave., just south of school #6. Ref: #3

Distance to above well or building:

Approximately 2.75 miles.

Ref: #3

Population Served by Groundwater Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from <u>aquifer(s) of concern</u> within a 3-mile radius and populations served by each:

N/A. Linden, New Jersey's water is supplied by the Elizabethtown Water Company. The source is two reservoirs which are located in Clinton, N.J. approximately 30 miles to the west. The well mentioned above serves the town of Rahway, New Jersey.

Ref: #4

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre).

N/A. Locally, the land is not used for agricultural purposes. Industry surrounds the site within a radius of 1.5 miles and charges to a densely populated urban environment beyond that point.

Ref: #8

Total population served by groundwater within a 3-mile radius:

N/A. For reasons stated above.

SURFACE WATER ROUTE

OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

Mercury, Lead, Cadmium

Rationale for attributing the contaminants to the facility:

LCP Chemicals formerly used mercury in their chlorine production process. Concentrations of mercury, lead and cadmium are all elevated in the downstream sample as compared to the upstream sample in S. Branch Creek.

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

25% The facility rises to a point approximately twelve feet above grade. The slope is equal in all directions.

Ref: #4

Name/description of nearest downslope surface water:

South Branch Creek, a tributary to the Arthur Kill River lies approximately 30' to 50' east of the site. The creeks confluence with the Arthurkill is approximately 1000' down stream.

Ref: #3, #8

Average slope of terrain between facility and above-cited surface water body in percent:

15%

Ref: #4

Is the facility located either totally or partially in surface water?

No, the base of the facility lies approximately five to seven feet above the high tide level of S. Branch Creek.

Is the facility completely surrounded by areas of higher elevation?

No, the facility is surrounded by areas of lower elevation. Ref: #4

1-Year 24-hour Rainfall in Inches

2.5 inches

Ref: #7

Distance to Nearest Downslope Surface Water

30'-50'

Ref: #4

Physical State of Waste

Solid - the waste consists of dewatered sludge and solids. Ref: #4

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Waste is contained in a closed (capped) brine sludge lagoon. The lagoon is unlined. Ref: #4

Method with highest score:

Surface impoundment with no liner.

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Mercury (elemental, inorganic)

Ref: #4

Compound with highest score:

Mercury (elemental, inorganic)

Ref: #5

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

30,900 cubic yards

Ref: #4

Basis of estimating and/or computing waste quantity:

LCP made estimates based on volume of waste in the brine sludge lagoon as of February, 1983, just prior to closure.

Ref: #4

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance: Recreation - Boating was observed along stretches of the Arthur Kill River Ref: #4

Is there tidal influence?

Yes, the tidal range in S. Branch Creek was approximately two feet. Effects of this tidal influence were observed in down-gradient monitoring well #2.

Ref: #4

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

The site is situated within a coastal wetland.

Ref: #4, #8

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

N/A

Ref: #4, #8

Distance to critical habitat of an endangered species or national wildlife refuge, if I mile or less:

The wetlands surrounding the site are breeding grounds for water fowl which could be consumed by the peregrine falcon. Falco peregrinus disappeared along the east coast in the early 1960's as a result of DDT contamination. They are now being reintroduced to the area.

Ref: #4

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

N/A - The Arthur Kill River is not used as a source of potable water or irrigation. Ref: #4

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

N/A

Ref: #4, #8

Total population served:

N/A

Ref: #4

Name/description of nearest of above water bodies:

N/A

Ref: #4, #8

Distance to above-cited intakes, measured in stream miles.

N/A

AIR ROUTE

OBSERVED RELEASE

Contaminants detected:

Date and location of detection of contaminants

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

A mercury detector and on HCL Draeger Assembly were employed to screen the air at the site. The instruments did not detect the presence of contaminants in the ambient air.

2 **WASTE CHARACTERISTICS**

Reactivity and Incompatibility

Most reactive compound:

Mercury (elemental, inorganic)

Ref: #5

Most incompatible pair of compounds:

(HgO, HgS, Hg, Hg3 P2) and Cl_2 , LCP produces Cl_2 gas at their Linden facility. Ref: #5

Toxicity

Most toxic compound:

Mercury (elemental, inorganic)

Ref: #5

Hazardous Waste Quantity

Total quantity of hazardous waste:

30,900 cubic yards

Ref: #4

Basis of estimating and/or computing waste quantity:

LCP made estimates of waste volume in the Brine sludge lagoon in February, 1983 just prior to closure.

Ref: #4

TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi 201,010

Ref: #2

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

The site is situated within a coastal wetland.

Ref: #4, #8

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

N/A

Ref: #4, #8

Distance to critical habitat of an endangered species, if I mile or less:

The wetlands which surround the site are breeding of grounds for water fowl which could be consumed by the peregrine falcon. Falco peregrinus disappeared along the east coast in the early 1960's as a result of DDT contamination. They are now being reintroduced to the area.

Ref: #4

Land Use

Distance to commercial/industrial area, if I mile or less:

The site is surrounded by an industrial area.

Ref: #8

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

N/A

Ref: #8

Distance to residential area, if 2 miles or less:

A residential section of Linden, New Jersey is situated 1.5 miles to the west. Ref: #8

Distance to agricultural land in production within past 5 years, if 1 mile or less:

N/A

Ref: #8

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

N/A

Ref: #8

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

N/A

Ref: #4, #8

FIRE AND EXPLOSION

1 CONTAINMENT

Hazardous substances present:

Mercury (elemental, inorganic)

Ref: #4

Type of containment, if applicable:

The facility is a former brine sludge lagoon which has been dewatered, compacted, capped with two feet of clay and covered with six inches of soil stabilized with vegitation.

Ref: #4

2 WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

Ignitability

Compound used:

Mercury (elemental, inorganic)

Ref: #4

Reactivity

Most reactive compound:

Mercury - reacts violently with chlorine gas. LCP produces Cl₂ gas at the Linden facility.

Ref: #5

Incompatibility

Most incompatible pair of compounds:

Mercury (HgO, HgS Hg, Hg₃ P₂) and Cl₂, LCP produces Cl₂ gas at the Linden facility.

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

30,900 cubic yards

Ref: #4

Basis of estimating and/or computing waste quantity:

LCP estimated the volume of waste in the Brine-Sludge lagoon as of February, 1983, just prior to closure.

Ref: #4

3 TARGETS

Distance to Nearest Population

LCP's Linden Plant is located 100-150 feet from the closed brine sludge lagoon.

The closest residential population is approximately 1.5 miles away.

Ref: #4

Distance to Nearest Building

100' to 150'

Ref: #4

Distance to Sensitive Environment

Distance to wetlands:

The site lies within the flood plain of the Arthur Kill River.

Ref: #4

Distance to critical habitat:

It is possible that the peregrine falcon may feed on the water fowl population of the adjacent wetlands. Falco peregrinus is being reintroduced to the area following its disappearance due to DDT poisoning.

Ref: #4

Land Use

Distance to commercial/industrial area, if 1 mile or less:

The closed brine sludge lagoon is on LCP property and approximately 100'-150' from the LCP plant.

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

N/A

Ref: #8

Distance to residential area, if 2 miles or less:

A residential section of Linden, New Jersey is situated 1.5 miles west of the site. Ref: #8

Distance to agricultural land in production within past 5 years, if 1 mile or less:

N/A

Ref: #8

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

N/A

Ref: #8

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

N/A

Ref: #4, #8

Population Within 2-Mile Radius

20,011

Ref: #2

Buildings Within 2-Mile Radius

7178

DIRECT CONTACT

I OBSERVED INCIDENT

Date, location, and pertinent details of incident:

2 ACCESSIBILITY

Describe type of barrier(s):

A security fence surrounds LCP's facility on three sides. A 24-hour security guard house is situated at entrance to the compound. S. Branch Creek which borders the sites eastern boundary exhibits levels of mercury above the U.S. EPA. Ambient Water Quality Standards. The sediment along the creek also shows elevated concentrations of lead and mercury.

Ref: #4

3 CONTAINMENT

Type of containment, if applicable:

The mercury contaminated waste is contained in a closed brine sludge lagoon. Closure features include a two-foot clay cap, vegitative cover and run off management system. The facility is unlined.

Ref: #4

WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Mercury (elemental, inorganic)

Ref: #4

Compound with highest score:

Mercury (elemental, inorganic)

5 TARGETS

Population Within One-Mile Radius

٥

Ref: #2

Distance to Critical Habitat (of Endangered Species)

The peregrine falcon, which is begin reintroduced to the area, may feed on locally contaminated water fowl.

Facility name:

LCP Chemicals

Location:

Foot of S. Wood Avenue

EPA Region:

II

Persons(s) in charge of the facility:

Contact during site inspection: Mark McLaughlin

Technical Supervisor

Replacement as of December 1984 - Terry Duran

Name of Reviewer: J.S. Cattafe General description of the facility: Date: 12/17/84

(For example: landfill surface impoundment pile, container; types of hazardous substances; location of the facility; contamination route of major concern; type of information needed for rating; agency action, etc.)

LCP Chemicals is located in the Tremly Point section of Linden, New Jersey, a heavily industrialized area along the low lying wetlands of the Arthurkill River. The subject of the Site Inspection is a closed brine sludge lagoon, which accepted mercury contaminated waste. The facility lies within the LCP compound and adjacent to S. Branch Creek, a tributary of the Arthurkill River. The waste is situated five to seven feet above the high tide level of S. Branch Creek.

Score: S_M 13.1

(Sgw 6.12 Ssw 21.82

 $S_a = 0$

SFE =18.89

 $S_{DC} = 20.83$

HRS COVER SHEET

Ground Water Route Work Sheet												
	Rating Factor		Assigned Value Multi- (Circle One) plier				Score	Max. Score	Ref. (Section)			
1	Observed Release		0			45)		1.	45	45	3.1
	If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.											
2	Route Characteristi Depth to Aquifer		0	1	2 :	3			2		8	3.2
	Concern Net Precipitation Permeability of th		0		_	3 3			1.		3 3	
	Unsaturated Zor Physical State	16	0	1	2	3			1		3	<u> </u>
			Total Ro	ute C	Chara	acteris	tics Sc	ero:			15	
3	Containment		C	1	2	3		-	1		3	3.3
4	Waste Characterist Toxicity/Persiste Hazardous Waste Quantity	ence !	Ċ	3			15 (8) 5 6		1	્ છ ્	18 8	3.4
	ļ	<u> </u>	Total W	aste '	Char	acteri	stics S	core		26	26	
5	Targets Ground Water U Distance to Nea Well/Population Served	rest	} 1 2	0 (1 0) 4 2 16 4 30) 2 1 6 3 18 3 32	3 8 20 35	10 40		3 1	క ర	9 40	3.5
											· • · · · ·	- 1
			•	Fotai	Targ	jets S	core			3	49	
[3		multiply multiply		4 , 3 x	, <u>[5</u>) × [5]			35	¹⁰ 57.33	0
7	Divide line 6	by 57.330	and mul	tiply	by 1	00		. —	Sgw	• 6.	12	

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Surface Water Route Work Sheet									
Rating Factor			od Value e One)	Multi- plier	Score	Max. Score	Ref. (Section)		
1 Observed Release	40	0 :	45	1	45	45	4.1		
if observed releas									
2 Route Characterist	lics	l			-		4.2		
Facility Slope an	•	0 1 2	3	1		3 .			
1-yr. 24-hr. Rainf		0 9 1 2		4 1		3			
Distance to Near Water	rest Surface	0 1 2	3	. 2			•		
Physical State		0 1 2	3 '	1		3			
	Tota	al Route Ch	aracteristics Sco	ore en		15			
3 Containment		0 1 2	3	1		3	4.3		
Waste Characteris Toxicity/Persist Hazardous Wast Quantity	ence		3 9 12 15 (18) 2 3 4 5 6	1 7 (8) 1	18	18 8	4.4		
·					1				
	Tot	al Waste Cl	naracteristics Sc	ore	26	26			
5 Targets Surface Water U Distance to a Se		0 1	2 3 2 3	3 2	6	9 6	4.5		
Population Serv to Water Intake Downstream		12 16 24 30	6 8 10 18 20 32 35 40		Ü	40			
		Total T	argets Score		12	55			
	multiply 1 multiply 2		5 4 × 5		14040	64,350			
7 Divide line 6 t	by 64,350 and	multiply by	100	S _{SW}	21	 کاگر			

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

		Air Route Work Sheet	Multi-	Score	Max. Score	Ref.	
Rating Factor		Assigned Value	plier		45	5.1	
Observed Release		0 45	1	C	45		-
Date and Location:							
Sampling Protocol:					<u></u>		
If line 1 is 0, the 5 if line 1 is 45, the	S _e = 0. E	nter on line 5. 1 to line 2.	·			5	.2
Waste Characteristics	3	0 1 2 3	1.	3	3		
Reactivity and Incompatibility	·	0 1 2 3 0 1 2 3 4 5 6	7 /8; 1	9		9 B	
Toxicity Hazardous Waste		0 1 2 3 4 5 6	<i>'</i> • ·				
Quantity							
·	:						
	 T	otal Waste Characteristics S	core	2		20	
					21	30	5.3
3 Targets Population Within	•	0 9 12 15 18 21) 24 27 30		•		6	
4-Mile Radius Distance to Sens		0 1 2 3		2	ن خ	3	-
Environment Land Use		0 1 2 3		1	-	.	
Edito 000					•		
)) :						
					30	39	
	1	Total Targets Score) 				
Multiply 1 x	[2] x [3	3			0	35,100	
1	, <u></u>	0 and multiply by 100		Sa =	0		

FIGURE 9 AIR ROUTE WORK SHEET

	S	s ²
Groundwater Route Score (Sgw)	6.12	37.45
Surface Water Route Score (S _{SW})	21.62	476 11
Air Route Score (Sa)	e	Ü
$s_{gw}^2 + s_{sw}^2 + s_a^2$		513.56
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		22.66
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 - s_M =$		13.1

FIGURE 10
WORKSHEET FOR COMPUTING S_M

	Fire and Explosion Work Shee	t			
Rating Factor	Assigned Value	Multi- plier	Score	Max. Score	Ref. (Section)
Containment	1 3'	1	١	3	7.1
Waste Characteristics Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity	0 3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3 4 5 6 7	1 1 1 1	p り き ろも	3 3 3 3	7.2
	Table Marian Champagaighe Sagar		1.7	20	I
	Total Waste Characteristics Score		17	20	
Targets Distance to Nearest Population	0 1 2 3 🕹 5	1 .	4	5	7.3
Distance to Nearest Building Distance to Sensitive	0 1 (2) 3	1	3	3 3	
Environment Land Use Population Within	0 1 (2)3 0 1 2 3 (4) 5	. 1	92 4	3 5	
2-Mile Radius Buildings Within 2-Mile Radius	0 1 2 3 4 5	. 1	· · · ·	5	
		,		·	
	Total Targets Score	· · · · · · · · · · · · · · · · · · ·	16	24	
4 Multiply 1 x 2 x	3		272	1,440	
5 Divide line 4 by 1.4	40 and multiply by 100	SFF	19 ₁	. 9	

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

Direct Contact Work Sheet									
	Rating Factor		Assigned Value (Circle One)		Multi- plier	Score	Max. Score	Ref. (Section)	
0	Observed Incident	i.	<u>0</u> 45		1	0	45	8.1	
	If line 1 is 45, proce If line 1 is 0, proce		mar -						
2	Accessibility		0 1 2 3		1	\	3	8.2	
3	Containment		0 (5)		1	15	15	8.3	
4	Waste Characteristics Toxicity	n k	0 1 2 3		5	3	15	8.4	
[3]	Population Within a		0 1 2 3 4	5	4	્ય	20	8.5	
	1-Mile Radius Distance to a Critical Habitat		0 1 2 3		4	۱٤	12	•	
	•				•				
			- -						
					•				
				•					
				• .					
	•			٠.					
			Total Targets S	core		20	32		
[8	If line 1 is 45, multifiline 1 is 0, multi	itipiy 1	4 × 5 3 × 4 × 6	3		45c	21,600)	
7	Divide line 6 by 2	1,600 and n	nuitiply by 100	Marie V	SDC	• <u>20</u> .9	პ <i>></i>		

FIGURE 12 DIRECT CONTACT WORK SHEET

BIBLIOGRAPHY OF INFORMATION SOURCES

HRS MODEL

	SOURCE HRS MODEL	LOCATION
1.	Anderson, H.R., Geology and Groundwater Resources of the Rahway Area, New Jersey. USGS Special Report No. 27, Washington D. C.: Government Printing Office, 1968.	NUS Corp., Edison, NJ
2.	Graphical Exposure Modeling System. General Software Corporation, 1984.	NUS Corp., Edison, NJ
3.	Nemikas, B., Geology and Groundwater Resources of Union County, New Jersey. USGS Water-Resources Investigations 76-73, 1976.	NUS Corp., Edison, NJ
4.	NUS Region II FIT Files.	NUS Corp., Edison, NJ
5.	Sax, N.I. Dangerous Properties of Industrial Materials. New York, N.Y.: Van Nostrand Reinhold Company, 1979.	NUS Corp., Edison, NJ
6.	The MITRE Corporation, users manual.	NUS Corp., Edison, NJ
7.	U.S. Environmental Protection Agency, "National Oil and Hazardous Substances Contingency Plan". Federal Register Vol. 47, No. 137, Washington D.C.: Government Printing Office, 1982.	NUS Corp., Edison, NJ
8.	United States Geological Survey. Arthurkill Quadrangle, New Jersey 7.5 Minute Series (Topographic). Reston, Va.: USGS, 1966.	NUS Corp., Edison, NJ
9.	Organic Sample Analyses from Environmental Monitoring and Services, Inc.	NUS Corp. Edison, NJ
10.	Inorganic Sample Analyses from JTC Environmental Consultants, Inc.	NUS Corp. Edison, NJ

NUS Corp. FIT Region II

Summary Statement LCP Chemicals Linden, New Jersey

LCP Chemicals, a division of LCP Chemicals and Plastics, Inc., operates a chlorine gas production facility at the foot of S. Wood Avenue in Linden, New Jersey. Chlorine gas is produced by the electrolysis of a sodium chloride brine. The process involved the use of a mercury cell for a period of several years during the 1970's. Sodium hydroxide (caustic soda) sludge, a biproduct of this process, was subsequently contaminated with mercury. The sludge was stored in a lagoon which was located between the production plant and S. Branch Creek to the east. LCP attempted to recover some of the mercury in an experimental chem-fix lagoon which was constructed at the edge of the main lagoon. The project was abandoned, and LCP changed their production procedures to eliminate the hazardous mercury component from the process.

In 1982 the US EPA ordered the LCP plant closed until the lagoon was secured and the hazard to plant workers was eliminated. LCP proposed to excavate the experimental lagoon and place the excavated material along with all mercury contaminated waste into the brine-sludge lagoon. The lagoon would subsequently be capped with an impermeable layer of clay. The proposal was accepted and closure procedures were completed during the fall of 1984.

The landfill covers an area of 62,500 square feet and rises to a point approximately 15 feet above S. Branch Creek, a tributary to the Arthur Kill River. LCP has installed five groundwater monitoring wells around the landfill. LCP samples these wells semi-annually and analyzes the samples for a list of 14 substances.



State of New Jersey

D-1. W GASTON JR., P.E.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER RESOURCES

CN 029

TRENTON, NEW JERSEY 08625

CERTIFIED MAIL RETURNED RECEIPT REQUESTED

DIRKIO HORMAN FE

LCP Chemicals & Plastics, Inc. - N.J. Raritan Plaza II, Raritan Center Edison, N.J. 08837

DEC 27 1983

NJPDES Permit No. NJ0003778

2-1-84 Effective Date:

Dear Sir:

DIRECTOR

Enclosed is the final NJPDES/Ground Water Discharge Permit and Notice of Authorization to discharge pollutants to the ground water, issued in accordance with the New Jersey Pollutant Discharge Elimination System Regulations, N.J.A.C. 7:14A-1 et seg. Violation of any condition of this permit may subject you to significant penalties.

Within 30 calendar days following your receipt of this permit, under N.J.A.C. 7:14A-8.6 you may submit a request to the Administrator for an adjudicatory hearing to reconsider or contest the conditions of this permit. Regulations regarding the format and requirements for requesting an adjudicatory hearing may be found in N.J.A.C. 7:14A-8.9 through 8.13. The request should be made to:

> Administrator Water Quality Management Element Division of Water Resources CN-029 Trenton, New Jersey 08625

Application for renewal of this permit must be submitted at least 130 days prior to expiration of this permit pursuant to N.J.A.C. 7:14A-2.1(f)5.

If you have any questions on this action, please contact Robert Berg, Supervisor, Land Application of Wastewater at (609) 292-0424.

Very truly yours,

John J. Tréla, Chief

Ground Water Discharge Permits Bureau

Water Quality Management

Table 3 - Ground Water Monitoring Requirements and Limitations for Initial Interim NUPDES Permits for Industrial Waste Management Facilities and Nuzardous Waste Interim Status Facilities

The permittee shall install and sample a total of 5 ground water monitoring wells according to the schedule below. All ground water elevations must be determined prior to pumping and sampling the ground water monitoring wells. Sampling of the ground water monitoring wells be performed according to the methodology specified in Section 6.12 of the HJPDES regulation and the Department's Field Procedures Manual for Water Data Acquisition. The permittee shall be performed during the months which are specified for that parameter. Sampling

PARAMETER Aldrin/Dieldrin Ammonia-Nitrogen X Arsenic and Compounds X Barium Benzidine Biochemical Oxygen Demand	LIMITA 0.00 0.5 0.05 1.0	3 ppb ppm	JanAprJulOct JanAprJulOct JanAprJulOct	SAMPLE TYPE Grab Grab Grab Grab Grab	REPORTING MONTH FebMayAugNov FebMayAugNov FebMayAugNov FebMayAugNov FebMayAugNov
(BOD ₅) <u>x</u> Cadmium Calcium Chemical Oxygen Demand (COD) <u>x</u> Chloride <u>x</u> Chromium (Hexavalent) and	0.01	ppm ppm ppm ppm ppm	JanAprJulOct JanAprJulOct JanAprJulOct JanAprJulOct JanAprJulOct JanAprJulOct	Grab Grab Grab Grab Grab	FebMayAugNov FebMayAugNov FebMayAugNov FebMayAugNov FebMayAugNov
Compounds Coliform Bacteria Color	0.05 (1) None No		JanAprJulOct JanAprJulOct	Grab Grab	FebMayAugNov FebMayAugNov
Copper Cyanide DDT and Metabolites Endrin Fecal Coliform, MPN per	abl 1.0 0.2 0.001 0.004	e Ppm ppb ppb	JanAprJulOct JanAprJulOct JanAprJulOct JanAprJulOct JanAprJulOct	Grab Grab Grab Grab Grab	FebMayAugNov FebMayAugNov FebMayAugNov FebMayAugNov FebMayAugNov
Fluoride Foaming Agents Gross Alpha Gross Beta	() 2.0 0.5	b bw bbw	JanAprJulOct JanAprJulOct JanAprJulOct JanAprJulOct	Grab Grab Grab Grab	FebMayAugNov FebMayAugNov FebMayAugNov FebMayAugNov
X Iron	0.3	ppm ppm	JanAprJulOct JanAprJulOct JanAprJulOct	Grab Grab Grab	FebMayAugNov FebMayAugNov FebMayAugNov

GROUND WATER MONITORING REQUIREMENTS AND LIMITATIONS - Page 2

		144 145 1	VEHICALO VAD LIMI	TATIOUS - Page	2
PARAMETER			SAMPLING	Taye	
Kjeldahl Nitrogen	LIMI	NOITAT	MONTH	CAMOLE THE	REPORTING
x Lead and Compounds		ppm	JanAprJu10ct	SAMPLE TYPE	MONTH
X Lead and Compounds Lindane	0.0	05 թթտ	Janyowanio	Grab	FebMayAugilov
		ppb	JanAprJulOct	Grab	FebMayAu .
magnesium _X Manganese		bbú bba	JanAprJulOct	Gran.	FebMayλι
	0.0		JanAprJulOct	Grab	FebMayλu
	0.0		JanAprJulOct	Grab	
methoxychlor	0.0		JanAprJu10ct	Grab	FebMayAugNov
Nitrate-Nitrogen (NO _N)		PPP	JanAprJulOct	Grab	FebMayAugNov
Odor and Taste 3		þþin	JanAprJulOct		FebMayAugNov
	No		ι,	Grab	FebMayAugNov
Oil and Grease	Notic	eable	JanAprJulOct		•
X pH	10.0	ppm .	Jananara	Grab	FebMayAugNov
X Phenols		S.U.	JanAprJu10ct	Grab	FebMayAugNov
			JanAprJulOct	Grab	FebMayAugNov
Phosphate, Total		ppb	JanAprJulOct	Grab	February
Polychlorinated Biphenyls		ÞÞm	JanAprJulOct	Grab	FebMayAugNov
(PLBS)	0.00	.			FebMayAugNov
Radionuclides	0.00		JanaprJuloct	Grab	en e
Radium	(2)		JanAprJulOct		FebMayAugNov
X Selentum and Comme			JanAprJu10ct	Grab	FebMayAugNov
X Silver and Compounds		PPm	JanAprJulOct	Grab	FebMayAugNov
X Sodium	0.05	Ppm	JanAprJulOct	Grab	FebMayAugNov
X Specific C		PPm	Jananatulos	Grab	FebMayAugNov
X Silver and Compounds X Sodium X Specific Conductance		PPIII	JanAprJulOct	Grab	FebMayAugNc"
				•	in a second
			JanAprJulOct	Grab	FobMarch
'Vee' DISSOLVED COLEAN (TOC)		ppm	JanAprJulOct	Grab	FebMayAugNov
VOCUL OLUMNIC LANKA TAAAL		PPIN	JanAprJulOct	Grab	FebMayAugNov
X Total Organic Halogen (TOH		ppm	JanAprJulOct	Grab	FebMayAugNov
	•			urab	FebMayAugNov
Total Volatile Organics by		PPm	JanAprJulOct		
GC/MS Scan (3)	-	•	- Produce	. Grab	FebMayAugNov
Toxaphene	50	PPb	Janhow Tulo-		
Turbidity	0.005	PPb	JanAprJulOct	Grab	FebMayAugNov
Zing and o	- 5 - 5 - 5	. , -	JanAprJulOct	Grab	FebMayAugNov
Zinc and Compounds	5.0	PPM	JanAprJulOct	Grab	FebMayAugNov
4 0	J. U	b bm	JanAprJulOct	Grab	FebMayAugNov
2,4,5-TP Silvex		ppb	JanAprJulOct	Grab	RobMaudication
		bhp	JanAprJulOct	Grab	FebMayAugNov
•				arab	FebMayAugNov

GROUND WATER MONITORING REQUI	REMENTS AND LIMITATIONS - Page 3	
X Elevation of Top of Monitor Well Casing (To be determined)	SAMPLING MONTH	REPORTING MONTH
once, but reported as indicated) X Depth of Water Table from Top of Casing Prior to Sampling	JanAprJulOct	FebMayAugNov

Top of Casing Prior to Sampling X Depth to Water Table from Original Ground Level Prior to Sampling

JanAprJulOct

FebMayAugNov

JanAprJul0c t

FebMayAugNov

(1) A. By membrane filtration, not to exceed four per 100 ml in more than one sample when less than 20 are examined per month, or B. by fermentation tube, with a standard 10 ml portion, not to be present in three or more portions in more than one sample when less than 20 are examined per month, or C. prevailing criteria adopted pursuant to The Federal Safe Drinking Water Act (PL 93-523).

Prevailing regulations adopted by USEPA pursuant to Sections 1412, 1415, and 1450 of The Public Health Services Act as amended by The Safe Drinking Water Act

The minimum detection level shall be at least 10 ppb for all volatile organic chemicals. The concentration limit for specific volatile organic chemicals shall be that specified in Appendix F of the NJPDES regulations for the 10⁻⁵ Cancer Risk, but in no case shall the total concentration for all volatile organic

The Permittee shall complete the forms required on the "Monitoring Report - Transmittal Sheet" (Form T-VNX-014) which is included as a part of this Permit. Failure to submit sampling data on the forms required on the "Monitoring Report - Transmittal Sheet" shall be considered by the Department to be a violation of the Permit sampling requirements and may place the Permittee subject to civil and administrative penalties pursuant to N.J.S.A. 58:10A-10.

It shall be the Permittee's sole responsibility to maintain an adequate supp'y of the required

Dangerous Properties of Industrial Materials

Fifth Edition

N. IRVING SAX

Assisted by:

Marilyn C. Bracken/Robert D. Bruce/William F. Durham/Benjamin Feiner/
Edward G. Fitzgerald/Joseph J. Fitzgerald/Barbara J. Goldsmith/John H. Harley/
Robert Herrick/Richard J. Lewis/James R. Mahoney/John F. Schmutz/
E. June Thompson/Elizabeth K. Weisburger/David Gordon Wilson

- MERCUROUS HYPOPHOSPHATE. Hg₄P₂O₆, mw: 960.3.
 - THR = HIGH. See mercury compounds. Unstable. Decomp explosively. [19]
- MERCUROUS IODATE. Yellowish crystals. Hg₂(IO₃)₂, mw: 751.06, mp: decomp.
 - THR = See mercury compounds, inorganic, and iodates.
- mercurous IoDIDE. Yellow tetragonal crystals or amorphous powder. HgI, mw: 327.50, mp: sublimes @ 140°, bp: decomp @ 290°, d: 7.70.
 - Acute tox data: Oral LD₅₀ (mouse) = 110 mg/kg; $ipLD_{50}$ (mouse) = 50 mg/kg. [3]
 - THR = HIGH via oral and ip routes. See mercury compounds, inorganic, and iodides.
- MERCUROUS MONOHYDROGEN-o-ARSENATE.
- Yellow-red crystals. Hg2HAsO4, mw: 541.14.
- THR = HIGH. See arsenic compounds and mercury compounds, inorganic.
- MERCUROUS NITRATE. Short, colorless, efflorescent crystals. Hg₂(NO₃)₂ · 2H₂O, mw: 561.26, mp: 70°, d: 4.79 @ 4°.
 - Acute tox data: Oral LD₅₀ (rat) = 297 mg/kg; oral LD₅₀ (mouse) = 388 mg/kg; ipLD₅₀ (mouse) = 5 mg/kg. [3]
 - THR = HIGH via oral and ip routes. See mercury compounds, inorganic, and nitrates. Violent reaction with C, P. [19]
- MERCUROUS NITRATE, AMMONIATED. Syn: black precipitate. Black powder, Hg₂ONH₂ Hg₂(NO₃)₂, mw: 958.4.
 - THR = See mercury compounds, inorganic, and nitrates.
- MERCUROUS NITRITE. Yellow crystals. Hg₂(NO₂)₂, mw: 493.24, mp: decomp @ 100°, d: 7.33.
 - THR = HIGH. See mercury compounds, inorganic, and nitrites.
- MERCUROUS OXALATE. White crystals. Hg₂C₂O₄, mw: 489.24.
 - THR = See oxalates and mercury compounds, organic.
- MERCUROUS OXIDE, BLACK. Black to grayish-black powder. Hg₂O, mw: 417.22, mp: decomp @ 100°, d: 9.8.
 - THR = HIGH. See mercury compounds, inorganic. Fire Hazard: Mod. by chemical reaction; an oxidizer. Reacts violently with H₂O₂, K. Na, S, (H₂S + BaO + air). [19]
 - Disaster Hazard: Dangerous; when heated to decomp, emits highly toxic fumes of mercury; can react with reducing materials.

- MERCUROUS PHOSPHATE. Heavy white powder. Hg₃PO₄, mw: 696.85.
 - THR = See mercury compounds, inorganic.
- MERCUROUS SULFATE. White crystalline powder. Hg₂SO₄, mw: 497.28, mp: decomp, d: 7.56.
 - THR = See mercury compounds, inorganic, and sulfates.
- MERCUROUS SULFIDE. Black crystals. Hg₂S, mw: 433.24, mp: decomp.
 - THR = See mercury compounds, inorganic, and sulfides.
- MERCUROUS TARTRATE. Yellowish-white crystalline powder. Hg₂C₄H₄O₆, mw: 549.29.
 - THR = See mercury compounds, organic.
- MERCURY. Silvery liquid, metallic element. Hg, atwt: 200.7, mp: -38.89°, bp: 356.9°, d: 13.546, vap. press: 1 mm @ 126.2°.
 - Acute tox data: Oral LD_{LO} (human) = 1429 mg/kg; inhal TC_{LO} (human) = 0.17 mg/m³ for 40 yrs \longrightarrow CNS problems; ivTD_{LO} (human) = 29 mg/kg; \longrightarrow GI symptoms. [3]
 - THR = HIGH to CNS, GI tract. See mercury compounds. An exper nea, [3] Reacts violently with acetylene, NH₃, BPI₂, Cl₂, ClO₂, CH₃N₃, Na₂C₂, nitromethane (butyne diol + acid). [19]
 - Radiation Hazard: For permissible levels, see Section 5, Table 5A.5. Artificial isotope 203 Hg, $T_{2}^{1} = 47d$. Decays to stable 203 Tl by emitting β 's of 0.21 MeV. Emits γ 's of 0.28 MeV.
 - Disaster Hazard: Dangerous; when heated emits highly toxic fumes.
- MERCURY ACETAMIDE. White powder.
 - CH₃CONHg, mw: 257.7.
 - THR = HIGH. See mercury compounds, organic.
- **MERCURY ACETATE.** See mercurous acetate or mercuric acetate.
- MERCURY ALANINE. See mercury-α-aminopropionate.
- **MERCURY-***p***-AMINOPHENOL ARSENATE.** See mercury atoxylate.
- MERCURY-α-AMINOPROPIONATE. Syn: mercury alanine. White crystals, water-sol.
 - Hg[CH₂CH(NH₂)COO]₂, mw: 374.8.
 - THR = HIGH. See mercury compounds, organic.
- MERCURY, AMMONIATED. See mercuric ammonium chloride.
- MERCURY ANTIMONY SULFIDE. Gray-black powder. Mixture of equal parts of black mercury sulfide and gray antimony sulfide.
 - THR = See mercury compounds, antimony and sulfides.

MERCURY ARC RADIATION. A recog carc. [14] See radiation, ultra-violet.

MERCURY ATOXYLATE. Syn: mercury-p-aminophenol arsenate. White powder. C₁₂H₁₄O₆N₂As₂Hg, mw: 632.71.

THR = HIGH. See arsenic compounds and mercury compounds, organic.

MERCURY BENZAMIDE. White powder.

C₆H₅CONHg, mw: 319.7.

THR = HIGH. See mercury compounds, organic.

MERCURY BISULFATE. See mercuric sulfate.

MERCURY CARBOLATE. See mercuric phenate.

MERCURY COLLOIDAL. See mercury.

MERCURY COMPOUNDS, INORGANIC.

THR = Mercury is a general protoplasmic poison; after absorption it circulates in the blood and is stored in the liver, kidneys, spleen and bone. It is eliminated in the urine, feces, sweat, saliva and milk. In industrial poisoning, the chief effect is upon the CNS and upon the mouth and gums. Colitis has been reported frequently, a nephritis or nephrosis is rarely reported. Fulminate of mercury rarely produces symptoms of systemic poisoning, but frequently causes a dermatitis. The cardinal symptoms of industrial mercury poisoning are stomatitis, tremors, and psychic disturbances. Usually the first complaints are of excessive salivation and pain on chewing; in severe cases there may be gingivitis, with loosening of the teeth, and a dark line on the gum margins, resembling the "lead line." In slow poisoning the salivation may be absent, and the only complaint dryness of the throat and mouth. Tremor and psychic disturbances are commonly seen in the slow chronic form of the poisoning; the tremor is of the intention type, and may be seen when the patient spreads the outstretched fingers or protrudes the tongue, or attempts to perform specified movements. Muscles of the face, hands and arms are chiefly affected. In more severe cases there may also be convulsive or shaking movements; writing is frequently illegible. Hyperactive kneejerks and scanning speech may be present in advanced cases. The psychic disturbance (so called "erethism") includes such changes as loss of memory, insomnia, lack of confidence, irritability, vague fears and depression.

The dermatitis produced by fulminate of mercury takes the form of small, discrete ulcers on the exposed parts, and is usually accompanied by conjunctivitis and inflammation of the mu mem of the nose and throat.

Elemental mercury is probably not absorbed

through the gastrointestinal tract, but many mercury compounds are. A number of mercury compounds, in addition to the fulminate, can cause skin irr and can be absorbed through the skin; they are strong allergens (Section 9).

These are common air contaminants.

Disaster Hazard: Dangerous; when heated to decomp, they emit highly toxic fumes of mercury.

MERCURY COMPOUNDS, N.O.S. LIQUID. See mercury compounds, inorganic and organic.

MERCURY COMPOUNDS, N.O.S. SOLID. See mercury compounds, inorganic and organic.

MERCURY COMPOUNDS, ORGANIC.

THR = The customary grouping of all organic mercurials in a single category is not fully justified by the toxicity of the compounds. Alkyl mercurials have very high toxicity, aryl compounds, particularly the phenyls, are much less toxic, and the organomercurials used in therapeutics are less toxic. The alkyls and aryls commonly cause skin burns and other forms of irr, and both can be absorbed through the skin. Fatal poisoning has occurred due to exposure to alkyl mercurials and permanent damage to the brain has been reported. Extensive human observation on exposure to the phenyl mercurials have shown no greater toxicity than is caused by metallic mercury. In fact, up to the present time there has not been an authenticated case of occupational poisoning due to the phenyl mercurials reported in the literature. Organic mercury compounds, like organic lead compounds, seem to have an affinity for lipoid-containing organs, resulting in CNS disturbances such as from tetraethyl lead. These are common air contaminants.

Disaster Hazard: Dangerous; when heated to decomp, they emit highly toxic fumes of mercury.

MERCURY CYANIDE. See mercuric cyanide.

MERCURY ETHYLENE DIAMINE SULFATE. See sublamin.

MERCURY FULMINATE, MERCURIC FULMINATE. See fulminate of mercury, dry.

MERCURY MORPHINE OLEATE. An oleaginous mass.

THR = See mercury compounds, organic, and morphine.

MERCURY NAPHTHENATE. White crystals; syndinaphthyl mercury, mw: 454.9, d: 1.929, bp: 249° mp: 188°.

THR = See mercury compounds, organic.

MERCURY-β-NAPHTHOL. See mercuric naphtho-

action and may affect other tissues of the body in addition to those of the CNS; in many cases the chlorine derivative is quite toxic. Thus, chloroform, in addition to its narcotic qualities, may cause liver, heart, and kidney damage.

As a general rule, the unsaturated chlorine derivatives are highly narcotic but less toxic than the saturated derivatives, thus causing degenerative changes in the liver and kidneys less frequently. In the saturated group, the narcotic effect is enhanced with an increase in the number of chlorine atoms. However, there is less relationship between the number of chlorine atoms present and the toxicity of the compound.

In dealing with these chlorinated HC, it must be remembered that a toxic action may result from repeated exposure to conc which are too low to produce a narcotic effect, and which, consequently, are too low to give warning of danger. Individual susceptibility is also important when poisoning by this group of solvents is being considered. Certain workmen may be seriously affected by conc that seem to have no effect on fellow employees in the same exposure. A (S)carc of the liver, lung, skin and blood forming tissues. [14]

Disaster Hazard: Dangerous; when heated to decomp, they emit highly toxic fumes of phosgene; they react violently with Al, liquid O₂, K, Na. [19]

CHLORINATED HYDROCARBONS, AROMATIC.

In most instances it is difficult to predict the toxicity of these compounds. However, in the case of most aromatic chlorine compounds, their toxicity is usually no greater, and frequently is less, than that of the corresponding aromatic hydrocarbons, with the notable exception of naphthalene. A (S) carc. [14]

Fire Hazard: U.

Explosion Hazard: React violently with Al, liquid O₂, K, Na. [19]

Disaster Hazard: Dangerous; when heated to decomp, they emit toxic fumes; they can react with oxidizing materials.

CHLORINATED HYDROCHLORIC ETHER. See ethylidene chloride.

CHLORINATED LIME. See bleaching powder.

CHLORINATED NAPHTHALENES.

THR = HIGH irr via oral, inhal and dermal routes.

A (S) carc of liver. [14] Also see chlorinated diphenyls. The action of the chlorinated naphthalenes on the body is quite similar to that of the chlorinated diphenyls, the chief effects being the production of chloracne of the skin and, systematically, an acute yellow atrophy of the liver. [14]

Disaster Hazard: Dangerous; see chlorides.

CHLORINATED PHENOLS.

THR = HIGH irr via oral, inhal and dermal routes. An exper (+) carc. [3, 1]

Disaster Hazard: Dangerous; when heated to decomp, they emit highly toxic fumes.

CHLORINATED TRIPHENYLS.

THR = MOD to LOW oral; MOD via dermal routes. An exper (+) transplacental carc. [3, 1] See also chlorinated diphenyls.

Disaster Hazard: Dangerous; when heated to decomp, they emit highly toxic fumes of chlorides.

CHLORINE. Greenish-yellow gas, liquid, or rhombic crystals. Cl₂, mw: 70.914, mp: -101°, bp: -34.5°, d: (liq) 1.47 @ 0° (3.65 atm), vap. press: 4800 mm @ 20°, vap. d: 2.49.

Acute tox data: Inhal TC_{LO} (human) = 15 ppm — pulmonary problems; inhal LD_{LO} (humans) = 430 ppm for 30 min; inhal LC₅₀ (rat) = 293 ppm for 1 hr. [3]

THR = HIGH irr via inhal route. Chlorine is extremely irr to the mu mem of the eyes and the respiratory tract. It combines with moisture to liberate nascent oxygen and form hydrochloric acid. Both these substances, if present in quantity, cause inflammation of the tissues with which they come in contact. If the lung tissues are attacked, pulmonary edema may result. A conc of 3.5 ppm produces a detectable odor; 15 ppm causes immediate irritation of the throat. Conc of 50 ppm are dangerous for even short exposures, 1,000 ppm may be fatal, even where the exposure is brief.

Because of its intensely irritating properties, severe industrial exposure seldom occurs, as the workman is forced to leave exposure before he can be seriously affected. In cases where this is impossible, the initial irr of the eyes and mu mem of the nose and throat is followed by cough, a feeling of suffocation, and later, pain and a feeling of constriction in the chest. If exposure has been severe, pulmonary edema may follow, with rales being heard over the chest. It is a common air contaminant.

Radiation Hazard: For permissible levels, see Section 5, Table 5A.5. Artificial isotope 30 Cl, $T_{2} = 3 \times 10^{5}$ y, decays to stable 36 A via β 's of 0.71 MeV.

Fire Hazard: Can react to cause fires or explosions upon contact with turpentine, ether, ammonia gas, illuminating gas, hydrocarbons, hydrogen and powdered metals, polydimethyl siloxane, polypropylene, drawing wax, rubber, sulfamic acid, As₂(CH₃)₄, UC₂, acetaldehyde, C₂H₂, alcohols, alkyl isothiourea salts, alkyl phosphines, Al, Sb, As, AsS₂, AsH₃, Ba₃P₂, C₆H₆, Bi, B, BPI₂, B₂S₃, brass, BrF₅, Ca, (CaC₂ + KOH), Ca(ClO₂)₂, Ca₃N₂, Ca₃P₂, C, CS₂,

Cs, CsHC₂, Co₂O, Cs₃N, (C + Cr(OCl)₂), Cu, CuH₂, CuC₂, dialkyl phosphines, diborane, dibutyl phthalate, Zn(C₂H₅)₂, C₂H₆, C₂H₄, ethylene imine, C₂H₅PH₂, F₂, Ge, glycerol, (NH₂)₂, (H₂O + KOH), I₂, hydroxylamine, Fe, FeC₂, Li, Li₂C₂, Li₆C₂, Mg, Mg₂P₃, Mn, Mn₃P₂, HgO, HgS, Hg, Hg₃P₂, CH₄, Nb, NI₃, OF₂, H₂SiO, (OF₂ + Cu), PH₃, P, P(SNC)₃, P₂O₃, PCB's, K, KHC₂, KH, Ru, RuHC₂, Si, SiH₂, Ag₂O, Na, NaHC₂, Na₂C₂, SnF₂, SbH₃, Sr₃P, Te, Th, Sn, WO₂, U, V, Zn, ZrC₂. [19]

Disaster Hazard: Dangerous; when heated, emits highly toxic fumes; will react with water or steam to produce toxic and corrosive fumes of hydrogen chloride.

CHLORINE AZIDE. Syn: chlor(o)azide. An explosive gas. ClN₃, mw: 77.48.

THR = HIGH irr via inhal route.

Explosion Hazard: Severe, when shocked, exposed to heat, flame or 1,3-butadiene, C₂H₆, C₂H₄, CH₄, C₃H₈. [19]

Disaster Hazard: Dangerous; shock can explode it; when heated to decomp, emits highly toxic fumes of chlorine and NO_x; will react with water or steam to produce toxic and corrosive fumes of hydrogen chloride.

CHLORINE CYANIDE. See cyanogen chloride.

CHLORINE DIOXIDE. Red-yellow gas or orange-red crystals. ClO₂, mw: 67.5, mp: -59°, bp: 9.9° @ 731 mm explodes, d: 3.09 g/liter @ 11°.

Acute tox data: Inhal TC_{LO} (human) = 19 ppm. [3] THR = HIGH irr via inhal route.

Fire Hazard: Dangerous, a powerful oxidizer.

Disaster Hazard: Dangerous; reacts violently with P, KOH, S, conc @ from 0.1 to 1 atm of > 10% in air explodes, also F₂Hg, organic matter, NHF₂. [19] When heated to decomp, emits highly toxic fumes of chlorine; will react with water or steam to produce toxic and corrosive fumes of hydrochloric acid.

CHLORINE DIOXIDE HYDRATE, FROZEN. See chlorine dioxide.

CHLORINE FLUOROXIDE. ClOF, mw: 70.5.

THR = HIGH irr via inhal route. Explosively unstable. [19]

CHLORINE HEPTAOXIDE. Colorless oil. Cl₂O₇, mw: 182.91, mp: -91.5°, bp: 82°, vap. press: 100 mm @ 29.1°.

THR = HIGH irr poison. Very unstable.

Fire Hazard: Dangerous; a very powerful oxidizing agent.

Explosion Hazard: Severe, when shocked or exposed to heat or flame.

Disaster Hazard: Dangerous; shock or heat will e plode it; on decomp, emits highly toxic fumes chlorine; will react with water or steam to produ toxic and corrosive fumes.

CHLORINE HYDRATE. Rhombic light yellow cry tals. Cl₂ · 8H₂O, mw: 215.04, mp: decomp @ 9.6°, 1.23.

THR = HIGH irr and tox. See also chlorine.

Disaster Hazard: Dangerous; see chlorine; will rea with water or steam to produce toxic and corrosi fumes.

CHLORINE MONOFLUORIDE. Nearly colorless garantees $1.62 = -100.8^{\circ}$, the second sec

THR = HIGH irr via inhal route. A very irr poisc Very unstable. Reacts violently with water, Te, c ganic matter. [19] See fluorides and chlorine.

CHLORINE MONOXIDE. Yellow-red gas or re brown liquid. Cl₂O, mw: 86.91, mp: -20°, bp: 2.2 d: 3.89 g/liter @ 0°, lel = 23.5%, uel = 100%. THR = See chlorine.

Explosion Hazard: Severe, when shocked or exposto heat of 39°. Reacts violently with NH₃, SSb₂S₃, Se, BaS, Ca₃P₂, C, CS₂, charcoal, H₂S, H_§ metal sulfides, NO, organic matter, PH₃, P, S, Sr SnS₂, turpentine. [19]

Fire Hazard: Very dangerous via heat, flame or ducing agents.

Disaster Hazard: Dangerous; see chlorine; will rea with water or steam to produce toxic and corrosi fumes. When heated it explodes.

CHLORINE TETROXIDE. See chlorine dioxide.

CHLORINE TETROXYFLUORIDE. See fluorine per chlorate.

CHLORINE TRIFLUORIDE. Colorless gas to yello liquid, sweet odor, ClF₃, mw: 92.46, mp: -83°, b 11.8°, d: 1.77 @ 13°.

THR = HIGH irr via inhal route. See also fluoride chlorine and fluorine.

Fire Hazard: Dangerous. Spont flam.

Explosion Hazard: Reacts violently with organmatter, glass wool, acetic acid, Al, Sb, As, Cu, I I₂, Ir, Fe, Pb, Mg, Mo, Os, P, K, Rh, Se, Si, A Na, S, Te, Sn, W, Zn, oxides, NH₃, benzene, C CrO₃, ether, graphite, H₂S, HgI₂, HNO₃, K₂C(KI, rubber, AgNO₃, NaOH, H₂SO₄, V₂P₅, wat WO₃. [19]

Disaster Hazard: Dangerous; when heated to decor or on contact with acid or acid fumes, emits high toxic fumes; will react with water or steam to pr duce much heat and toxic and corrosive fumes; acts vigorously with reducing materials.

DRAFT

GRAPHICAL EXPOSURE MODELING SYSTEM

(GEMS)

USER'S GUIDE

Prepared for:

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES AND TOXIC SUBSTANCES
EXPOSURE EVALUATION DIVISION
Task No. 4
Contract No. 68016618
William Wood - Project Officer
Loren Hall - Task Manager

Prepared by:

GENERAL SOFTWARE CORPORATION 8401 Corporate Drive Landover, Maryland 20785

Submitted: June 25, 1984

(Selected Files)

GAGE

IFDDIR

IFDIND

Master Area Reference File (MARF) 1980 census

data on the following environmental parameters: agriculture, climate, vegetation, forestry, air quality, land, natural areas, population, water quality, terrain (soils) and wildlife.

The GAGE dataset contains primarily stream flow rates monitored consistently by approximately 99,500 stream gaging stations throughout the country, and some estimated flows.

IFDDIR contains industrial facility data for approximately 28,000 direct dischargers excluding publicly owned treatment works (POTWs)

IFDIND contains limited industrial facility data for approximately 12,000 indirect dischargers which discharge through other facilities, usually POTWs.

This dataset contains a variety of location identification information, population count by race, the number of occupied and owner-occupied

TABLE 2-2. GEMS Datasets (Continued)

DATASET NAME

DESCRIPTION

number of families for all enumeration district/block groups for continental USA, Hawaii, and Alaska.

Meteorological Data

Several meteorological data files are contained in this category: (1) the Stability Tabular Array (STAR) data file has meteorological data for 394 first order weather stations in the continental USA, (2) A master index file (STARSEL), and (3) An auxiliary file (AUX).

Publicly Owned Treatment Works (POTWS)

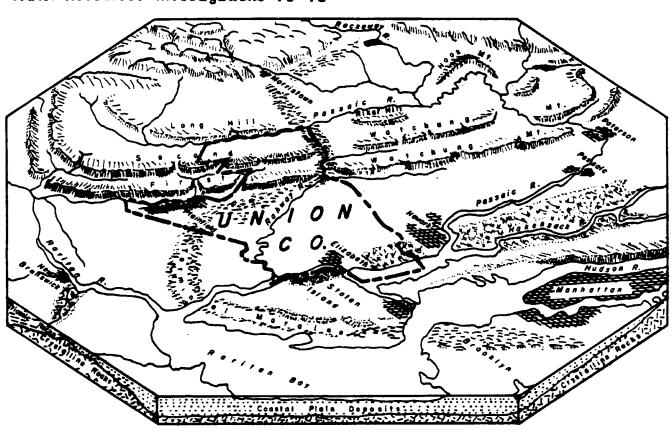
This dataset contains 1982 survey data on the unit treatment process, the influent and effluent and hour rates, and the population served by 33,000 publicly owned treatment works around the country.

APR 1 9 1982

GEOLOGY AND GROUND-WATER RESOURCES OF UNION COUNTY, NEW JERSEY

U.S. GEOLOGICAL SURVEY

Water-Resources Investigations 76-73



Prepared in cooperation with

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION, DIVISION OF WATER RESOURCES



By Bronius Nemickas

ABSTRACT

Ground water in Union County occurs in the voids of unconsolidated stratified drift deposits of Pleistocene age and in the joints and fractures of the Brunswick Formation and Watchung Basalt of Late Triassic age.

Wells (6 inches or greater in diameter) in the stratified drift deposits yield from 180 to 690 gpm (gallons per minute). The specific capacity of these wells range from 4.0 to 69 and average 19 gpm per foot of drawdown. High yielding wells in the stratified drift deposits are located primarily in the valley-fill deposits in the bedrock valleys that were cut by streams before the Wisconsin Glaciation in Pleistocene time.

Wells (6 inches or greater in diameter) in the Brunswick Formation yield from 12 to 870 gpm; the most productive water-bearing zones are commonly between depths of 200 to 600 feet. The specific capacity of wells in the Brunswick Formation range from 0.04 to 25 and average 3.5 gpm per foot of drawdown. Wells (6 inches or greater in diameter) in the Watchung Basalt yield from 20 to 164 gpm and the specific capacities of the wells range from 0.24 to 2.5 and average 1.2 gpm per foot of drawdown.

The quality of ground water from the stratified drift deposits is generally acceptable for most uses. Hardness ranges from 110 mg/l (milligrams per liter) to 210 mg/l. The pH ranges from 6.4 (slightly acidic) to 8.5 (slightly alkaline). The quality of ground water from the Brunswick Formation is acceptable throughout the country for most uses. Hardness ranges from 71 mg/l to 1193 mg/l. The pH ranges from 6.3 to 8.5. Calcium and magnesium are the predominant cations. Sulphate is the predominant anion in water having dissolved solids greater than 500 mg/l and bicarbonate is the predominant anion in water having dissolved solids less than 500 mg/l.

Withdrawals of ground water from all aquifers in Union County by public supply are estimated to average about 16.0 mgd (million gallons per day) in 1968. The greatest quantity of ground water is withdrawn from the Brunswick Formation—about 11.6 mgd for public supply in 1968. The stratified drift aquifers yield substantial quantities of water—about 4.4 mgd in 1968—but the deposits are of limited extent. The matching Basalt is of minor importance as an aquifer in Union County.

New York State Department of Environmental Conservation

RECEIVED



MAY 2 0 1985

Henry G. Williams Commissioner

Endangered Species Unit Wildlife Resources Center Delmar, NY 12054-9767 NUS CORPORATION
REGION II
SENT TO

16 May 1985

Mr. Joe Katofy NUS Corporation Raritan Plaza 3 Fieldcrest Avenue Edison, NJ 08837

Dear Mr. Katofy,

With reference to your request for information concerning peregrine falcon use of the Tremley Point area, I feel it is very likely that peregrines could hunt in the wetlands near L.C.P. Chemicals in Linden.

Peregrines feed almost entirely on birds caught in open areas such as wetlands and fields.

We have records of single peregrines this year at the Goethals Bridge and Outerbridge Crossing, which are only a few miles away. There is also a pair nesting at the Verrazano Narrows Bridge. Last year there was also an unsuccessful pair of falcons at the Outerbridge.

If I can provide any additional information, please do not hesitate to contact me.

Sincerely,

Santana Allen Loucks
Research Scientist I

Endangered Species Unit

RECEIVED



MOV 3 6 1984

State of New Jersey

NUS CORPORATAIN REGION II

DEPARTMENT OF ENVIRONMENTAL PROTECTION

PLEASE REPLY TO: CN 400 TRENTON, NEW JERSEY 08625

November 15, 1984

Charlotte Ryden NUS Corporation Raritan Plaza III King George Rd. Edison, NJ 08837

DIVISION OF

FISH, GAME AND WILDLIFE

RUSSELL A. COOKINGHAM

DIRECTOR

Re: Important biological resources in the vicinity of Perth Amboy

Dear Ms. Ryden;

As we discussed over the phone, the only particularly sensitive species known to reside in or use the area of concern is the peregrine falcon. A pair of falcons attempted unsuccessfully to nest on Outerbridge Crossing during the spring/summer of 1984. These birds are likely offspring from birds reintroduced along the east coast to replace the extinct east coast population of Falco perigrinus. This population disappeared during the late 1950's, early 1960's primarily as a result of pesticide (DDT) contamination. While there is no evidence that industrial pollution and toxic wastes are entering the food chain and influencing peregrine breeding, I would not consider such a finding surprising.

Peregrines residing in the vicinity of Perth Amboy, Staten Island, and Woodbridge undoubtedly feed on birds (pigeons, gulls, shorebirds, etc.) which are likely contaminated to some degree from local sources of chemical pollution.

Due to the area's highly developed and industrialized status it is unlikely that other potentially fragile species occur in the area of concern.

I hope the information I have provided is of some help to you. Should you need additional information please do not hesitate to contact me.

Sincerely,

C. David Jenkins

Central Regional Zoologist

Endangered and Nongame Species Program

CDJ:cy

c; J. Frier-Murza

ANALYTICAL DATA LCP CHEMICALS, LINDEN, NJ., SAMPLING DATA : 9/27/84:...

CASE NUMBER : \$348

INDROANTÉS

·	 			1
SAMPLE NUMBER MATRIX UN)TS		MBOS39 WATER UG/L	MDO841 : WATER : UG/L	MB0851 : WATER : UG/L
Aluminum Antimony Arsenic Barium Meryllium Codmium Chromium Cobalt Copper Iron Lead Monsanese Mercury Nickel Selonium Gilver Thöllium		181,000 181 745 6700 12 89 273 200 444 204,000 204 9040 253 430 383	532,000 188 5790 15400 12 7.2 502 376 1300 297,000 726 12400 136 138 43	767,000 335 4280 16300 154 1350 1860 1860 1622 16300 1622 16300 1622 16300 1622 16300 1622 16300 1622
Tir Vanadiam Zinc	# 3 4	368 222 1590	: : : : : : : : : : : : : : : : : : :	662 1 2940 1 1 12200 !

NOTES

Blonk space - compound analyzed for but not detected

E - analysis did not pass GA/GC requirements

AMALICATIAL BATA

LOP CHEMICALS, LINGER, NJ SAMPLING DATA : 7/27/84 CASE NUMBER : 3348

TNORGANICS

TWOMMUSTES	•				ات المراجعة القراء بالمراجعة بين بين وجوارية الم
SAMPLE NUMBER MATRIX UNITS	I.	MEGLAS : WATER : UGZL :	MTO146 WATER UGZL	MD0147 WATER UG/L	MB0148 COTL MG/KC
Aluminum		199		! :	1 1380
Antimony	Į,	\$13 d	97	!	!
Arsenic	•	157	E	1.6	5.4
Barlum .	E 6	420 . :	4(3.0	i i	150
Berylliann	•	1		· ·	t'
- Codminum	<u> </u>	j 0	70] 	1 0.89
Chromiam	1	, !		} :	1.2
Cobolt		5.1	3.008	!	1 (4) (7) (8) 1 (4) (8) (8)
$\mathbb{C}_{0} \circ \phi \circ f$		•:	1.34) t	1 20
Treon	!	921	1960	t z	1 7250
t, e o ci	· .	1.0	7.7		30
Mansanwsw		77 3	247	1	72
21#TCUTY	; ;	20	en e en Woods No	i	1 12.5
Mickel	ig :	97 1	177	:	1.0
Serven ium	ار در.	131	249		0 * 6 4
1961/er .	,	A12 1		:	0.61
Thalliam		!		•	!
Tim	;	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1691	1. 29	1.79
Vanadium .		t t		t 1	21
Zinc	i. o		1740	1.7	1 57

NOTES: .

Blank space - compound analyzed for but not detected

F - analysis did bot pass QA/QC requirements

ANALYTICAL DATA LCP CHEMICALS, LINDEN, NJ SAMPLING DATA : 9/27/84 CASE NUMBER : 3348

INORGANICS

The Lates of the Association and Association	e e e		*	· • · · · · · · · · · · · · · · · · · ·	Language mit op 100 om 100 mm and 100 om 1
SAMPLE NUMBER MATRIX UNITS		MB0149 SOIL MG/KG	MB0150 SOIL MG/KG	MB0151 SOTE MG/KG	MB0152 WATER UG/L
Aluminum Antimony Arsenic Dorium Beryllium		2350 1.0 44 3300	3140 26 77	4220 50 5114	
Cadmium Chromium Cobalt		3.0 3.4 4.8 41	6.5 9.0	2+6 12 1 - 22	1
Copper Iron Lead Manganese		3590 794	5570 185 8.6	9690 128 51	r i
Mercury. Nickel Selenium) 170 1 12 1 0.39 1 0.72	2.6	: 53 : 7.9 : 0.29	1 1 1 1
Silver Thallium Tin Vonadium	,) 	1.4 7	16	3.3
Zinc		152	. Z	171	1.9

MOTEST

Blank space - compound analyzed for but not detected

E - analysis did not pass QA/QC, requirements

ANALYTICAL DATA LOP CHEMICALS, LINDEN, NJ. SAMPLING DATE: 9/27/94 CASE: 3348

VOLATULES.

VOLATILES	1			* .
SAMPLE NUMBER MATRIX UNITS	# #3750 : WATER : UG/L	1 - 03751 1 WATER 1 U9/L	B3752 : WATER : UG/L	B3754 WATER UG/L
Chloromethone	9.	1 1 1	: !	
Bromomethane	}	1	F	
Vinyl Chloride	1	1	1	
Chloroethane	14 10		i ;	
Methylene Chloride	1 🖺	T - ET		E
Acetone	E	1 2400B	1808 1	450B
Carbondiswlfide		1	i ;	
1.1-Dichlaroethene	is	1	1 1 i	
1,2-Dichloroetbone	n N	1	1	
Trans-1,2-Dichloroothene	11	•	4.	
Chloroform	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	; ·	;	<u> </u>
1,2-Dichloroethiae		i	1 1	42
2-Butanone	'! !!.	1	1	
1.1,1-Trichlorowthane.	r <mark>i</mark>	!	1	
Carbon Tetrachloride :		1	; ; ;	
Vinyl Acetute	7	1	!	
Bromodachloromethore o	· [1]	<i>t.</i>	!	5
1,1.2,2 Tetrachloroethane	;	1	1	
1,2-Dichiusopropane	15		!	
Trans-1,3-Dichlorop.copene	4 4	!		
Trichloroèthene	() (!	<u>.</u>	1 2	
Dibromochloromethane .	4	i ,	1	5
1,1,2-Trich?oroethone	1	;	1	J
Benzene	<u> </u>	1	1	24
Cis-ty3:Duchloropropene) 	
2-Chloroethvivinylether	3	!		
Bromoform	1	1		i O
2-Hexanane	,			5
4-Methyl-2-Pentonone	* 1		!	6
Tetrachloroethene		:		j.
Toluene	.! E	i E	1 1	193
Chlorobenzene	•!	1	1	1.4
Ethylbenzene	1	1	!	Œ
Styrene		1 /	1 1	
Total Xylenes	Jan 19	1		E.

NOTESI

Blank space - compound analyzed for but not detected

E - analysis did not pass QA/QC requirements

ANALYTICAL DATA LCP CHEMICALS, LINDEN, NU SAMPLING DATE: 9/27/84 CASE: 3348

UOLATTIES

VOLATILES			·	·
SAMPLE NUMBER MATRIX UNITS	53785 WAISS UG/L	R3706 WATER UG/L	B3787 SOIL UG/KG	: B3788 SOIL U67K6
Chloromethane	! !	1		E
Bromomethane		1	1 E	} E
Vinvi Chloride		1	T E	E
Chloroethane	}·	P. Carlotte	Y E.	:
Methylene Chloride	i E	170B	1 E	1 1
Acetone) II	1	l Y) E
Carbondisulfide	i i	1	: III	E
1,1-Dichloroethene	1		E	E
1,2-Dichloroethane	<u>.</u>	!	1	
Trans-1,2-Dichloroethene	? *	1		
Chloroform	57	1 1 .	E	<u> </u>
1,2-Dichloroethane	1	1		i E
2-Batanone			1	ļ 1
1,1,1-Trichloroethane	1		1 5	
Carbon Tetrachloride	!			
Vinyl Acebate .	i .	1	<u> </u>	· E
Browedichloromethane :	20) J	t E	4 E -
1,1,2,2-Tetrachloroethane		1	i Vi	
1,2-Dichloropropone	1	1		
Trans-1,3-Dichloropropene	1			1 (***)
Trichloroethene	l'		E	
Dibromochloromethane	25	1	E	E
1,1,2-Trichloroethone	1	: :	<u> </u>	
Benzene	d	1	:	
Cis-1,U-Dichloropropene]; 	1	<u>E</u>	i E
2-Chloroethylvinylether	1 1 <u>1</u>	1 1	<u> </u>	E
Eromoform .	31	i	E E	T E
2-Hexanone	, :	1	: E	
4-Methyl-2-Pentanone	t		! !!!	! E
Tetrachloroethene	1 "1	1	; E	[IT IT IT IT IT IT IT IT
Toluene	H E	i ii	; E) E
Chlorobenzene	.) 5	i i	i E	} £
Ethylbenzene	1	;	1	i
Styrene		, t	ļ E	E
Total Xylenes		1 .	i E	i E

NOTES

Blank space - compound analyzed for but not detected

E - analysis did not pass QA/QC requirements

ANALYTICAL DATA LCP CHEMICALS, LINDEN, NJ SAMPLING DATE: 9/27/94 CASE: 3348

VOLATILES

VULNITEED	1		I	· · · · · · · · · · · · · · · · · · ·			1
SAMPLE NUMBER MATRIX UNITS	3	83789 SOIL UG/KG	1	3790 SOIL G/K G	1	B3791 SOIL UG/KG	
Chloromethone	- 1	E.	; } !	I	; ;	Œ	i !
Bromomethane	et Ir	1	1	E.	1	E.	}
Vinyl Chloride	à	IX.		lii.	i,	Ę.	1
Chloroethone	.1.	E	1 .	1.	ļ	Œ	1
Methylene Chloride	!	E.	1	l::.	1	1	. F
Acetone	1	i	1 .	E.	. 1	<u> </u>	:
Carbondisulfide	1	1	!	1	!	1	1
1.1-Dichloroethene	. !	1	}]	1	E::	1
1.2-Dichloroethone	. :	E.	: <u>!</u> !	Œ	. 1	l	1
Trans-1.2-Dichloroethene	:	ia.	1)	E.	ŀ	, E	f ,
Chloreform		I	,	E.	1	} <u></u>	!
1,2 Dichloroethane	1	Œ	1	E	!	E	1
2-Butanone	i.	Æ	1	E.	ì	<u>;</u>	į
t,i,1-Trichloroethane	1	1:1	1	E	į	<u> :::</u>	1
Carbon Tetrachloride	1 :	E.	1	FE.	i ,	<u> </u>	;
Vinyl Acetate	- 1	Y''	!	E	. '	E	3
Dromodichloromethane	1	Æ	11	E	1	Æ	1
1,1,2,2-Tetrachloroethane		E	1	E.	1	E	1
1,2-Dichloropropan@	ì	Œ	1	E	1	E	i
Trans-1,3-Bichloroprogene	ļ	Œ	i	E	ì	<u> </u>	;
Trichloroethene	. !	Œ	1	E	-	E.	;
Dibromochloromethane	\$ 1	III.	1 1.	EE_	ł. 1	E.	1
1,1,2-Trichloroethane		E) I	1	1	E.	3
Benzene	j.	122	l. F	E	1.	E	1
Cis-1,3-Dichloropropene	1	Œ	1	E	<u>.</u>	E	1
2-Chloroethylvinylether	*- !	Œ.	1	E	1	Œ	;
Dromoform	- 4	TEI.	1 i	<u>[:</u>	ļ	E.	;
2-Hexanone	:	E	ļ.	E	ì	E.	i 1
4-Methyl-2-Pentanone	1	E	1	Œ	1	i::	:
Tetrochloroethene		(<u>.</u>	ì	1	1	E	1
Toluene	!	E		E	1	E	i
Chlorobenzene	1	, E	1	E	1.	E.	.2
Withylbenzene	1 i	III.	1	Æ	l t	E	1
Styrene	11	E		E.	;	E.	1
Total Xylenes		r		FE.	;	Æ.	:

NOTES:

Blank space - compound analyzed for but not detected

E - analysis did not pass QA/QC requirements

AMALITICAL BATA LEP CHERICALS, LINDEN, NO CAMPLING CATA : 9/27/84 CASE NUMBER : 3348

*** *** * * *	2 1 7 5 5		***.
$\mathcal{F}_{1}(\mathbb{F}_{p}) = \mathcal{F}_{1}(\mathbb{F}_{p})$	WM.	P(1,1,1)	1 17 17

SEAR VIA. ATTEMS		3		· . !
SAMPLE NUMBER MATRIX	1 23750 1 WATER	: D3751 ! WATUR	BUVUL HATER	i DSZSA i WATER
UNATS	te ugal	1 UO/L) UG/1.	1 0071
			3	
A-Witrokodimethylamine				
Phenol	i ii E) III. }	1
Aniline				· · · · · · · · · · · · · · · · · · ·
Bis(2-Chlorowthyt)Elber			E. E.	
2-Chlorophenol		H. E.		
i,3-Dichleropenseno	; <u>;</u> ;	1 V		E E
1.4-Dienlorobensene		f.,	m. T	; III.
Benzyl Alcohol	! E	1 5		
1.2-Dichlorobenzene	: E	F	F E	
12-Methylphenol	1 E* 2			1 E.
Ris(2-Chloroipperopol)Hibbe	r: <u>E</u>			:
i-Methylphenol	IE.		i E. H.	
N-Nitroso-Di-n-Propylamine	(a.	E)
Hexachloroethune		£	1 1	
Nitrobenzene	E .	1 (5)		
Isophovone	! E	1 €	<u>E</u> ,	
R-Natrosnerol		E	f. (f.) 407 1 100 1 100
2.A-Dimethylphenol	i.	E		l E
Benzoic Acid	j. E.,	1 12		# ## ## ## ## ## ## ## ## ## ## ## ## #
Bis(2-Chlorcethowy) Mwthane	<u></u>	: E	I E	<u> </u>
2,1-Dichlorophenol	ļ E	1 12 m	! Œ	<u>E</u>
1.2,1-Trichlorobenzene	· F	i i E	1 1	E
Amphibhales of the control of the co	1.	; l".	100	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
3-Chioroanilino	j e e E	6 200 6 200 7 200	ļ E	1 127
Hemachlorobutadiene) 1	7	;	1
4-Chioro-S-Methylphenol	-(E	i E	1 PM	i E
2 Methyliaphthalone		12.	E	1
Hexachlorovolopentadiene) E)	1 = E	: E
2,478 Injuliancontendi	$\frac{p}{0}$ $\frac{1}{t}$	i E''	li.	1 57
2.4,5-Trichkorophenok	1 2	1 G	1 2	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
2-Chioromap whichene	i, iii	1 12	1 17	į "
2-Minnooni) ine		i II	: E	FT FT
Dimerbyl Chinalate	P	100	# E	I sa II
Acenaphthylene	<u></u>		1 10	: E
3-Nitroamiline	£ .	J. E.	1 F	E
Adenaphthone	- 1 III	; E.	100	1
2.3-Dinitrophenol		(E)	() V	1 15
1-Nitrophenol	6	ie.	.1 10	t Vi
Dibwnzofuruo		1 1	l E	1 <u>VII</u>
D.A-Wingirotoloene	# FT		12) E
2,A-Uinitiotoluene	i i	1	i i) (:
District Phinalale	5	1	i iii	: : :
A-Chlorophenyl-phenylether			‡ £	E
-, wenterdoneny a prieny awaren. Fluorene	2 177 100	100 mm	1 E	E
	<u> </u>	; <u>;</u> ; ;		1 E
4-Nitreaniline 4,3-Binitro-2-Methylphenol		1 1	1 11	; <u>;</u> ;
	E E			; (E
N-Nitrosodiphenylamine			iii. Yu	
3-B. omophersl-Thenylethor.	11. III.		; H. ; FI	: III.
Mexachionobenzeno	1 17 17 17 17 17 17 17 17 17 17 17 17 17			;
Pentachlarophenol	Property of the second	; ;	1 177 177 177	
PRESIDENCE PROPERTY	E) E	E	! E
And thought	r P		H H	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
Diene Bar Derkhainbar		i e) E
· ·				

ANALYTICAL DATA LCP CHEBICALS, LINDEN, NJ SAMPLING DATA : 9/27/94 CASE NUMBER : 5348

SEMA-VOLATELES

		4		1			1
DAMF: E NUMBER MATRIX UNITS		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	P3750 WATER UG/L	1	BB751 WATER UG/L	.: RSZSZ+ .: WATER -: UGZL	B3754 WATER UGZL
· Fluorianthene			Ė	1	ju.		i in
Wenziuine'		1	E	!	E	1 11	1
Pyreae			Æ	:	E.	1 E.	: E
Dutylbenzylphthalate		r."	E.	1	E	1 · E	† E
3.37 Dichlerobenzadin	69	1.	Y::	1	::: !	ł E	F.
Beard (a) Anchiacene		1	r	1	£1.1 5.44	E	(E
Bis(2-Eth/lhexyl)Phth	alate	1) }	:	<u> </u>	: ::::	1
Chrysene			r È	1	i.'.	į E	Y. Y.
Dien Wets a Philostobe		187	<u>[-]</u>	;	F	1 11	1
Benco(b) Tuoron brene			<u>ir.</u>	ì	· E.	i f.) E
Denzo(k)Fluorunihene	i	i,	Æ	† :	F.	1 12	1 11
- Benzo(a)Pyrene	٠.	ļ.	t:	3	ï.	! 12	1 E
Indeho(1,2,5-cd)Pyren	ŵ	14		;	17	1 E	i Li,
DibearolashlAnthracea				* }	Œ	1 11 11	i Fire
Dwago(ghi)ferylene	-	!	IZ.		F,	1 1	: E

MOTES:

Blank space - comeound and) yzed for but not detected

E - analysis did not poss GA/GC requirements.

ANGLYTICAL DATA LCP CHEMICALS, LINDEN, NJ SAMPLING DATA : 9/27/84 CASE NUMBER : 3348

SEMI-VOLATILES				
SAMPLE NUMBER MATRIX UNITS	83785 WATER UG/L	: B3786 : : : WATER : : : UG/L : :	B3797 SOIL U07KG	1
N-Nitrosodimethylomine .	! E .		1	i E
Phonoi	1	1 <u>12</u>	<u> </u>	1
Aniline	! !!!	: :	I	1
Bis(2-Chloroethyl)Ether	E	1 E	Œ	1 E
2-Chiorophenol	f E	; E	£	i E
1.Z-Dicklorobenzene	{ <u>E</u>) E	£	! E
1,4-Dichlorobenzene.) E	! !!!	E	1
Benzyl Alcohol	; E	1 2 1 1] <u></u>	1 E
1.2-Dichlorobenzene	1 12.	1 12	E.	E
2-Methyaphenol	ļ. E	1 1	ii:	T E.
Bis(2-Chloroisopropyl)Ether		! E.	E	1
4-Methylphenol	1 1	! E	i iii	i E
N Natroso-Di-n-Propylomine	ř E		JE.]
Hexachloroethane	1 E		: i i i i i i i i i i i i i i i i i i i	E. E.
Nitrobenzene	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	E.	! E
Isophorone	l' lil	! E) <u>E</u>
2-Nitrophenol	Γ_{i}	t Œ		E
2.4 Dimethylphenol	#	E	E	:
Denzouc Acid	¥ . E	; E	E ·	i E
Bis(2-Chlproethoxy)Methane				E
2,4-Bichlorophenol		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	l E	
1,2,4-Trichlorobenzene				! <u>U</u>
Nophthalene	; III.		! III	1 11
4-Chloroaniline Nexachlorobutadiene		i E	: : E	F E
%-Chloro-3-Methy±phenol	E	E.	i E.	i E
2-Methylnophtholene	1 has			1
Hexachlorcyclopentadiene		1 1	1 1	<u>E</u>
2,4,5-TrichlorophenoI		1	E	i E
2.4.U-Trichlorophenol	1 12	t E	l Œ	l E
2-Chloronaphthalene	12.	1	i C	į E
2-Nitrooniline	1	1 12	E	I E
Dimethyl Phthalate	1 E) E	: E	; E
Acenaphthylene	}	1 12	; Œ	ł Œ.
3-Nitroaniline	J E	£ £	r E	1 E
Acenaphthene		I E	ł E.	į E
2,4-Dinitrophenol	! Œ ·	ļ Jii.	Ë	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4-Nitrophenol	TE 1	E	! E	
Dibenzofuran	E	I · E] [
2,4-Dinitrotoluene	l· E	l E	E	; E.
2.4-Dinitrotoluene	4 8	! E] <u>II</u>	! E
Diethyl Phthalate	ļ			
4-Chlorophenyl-phenylether			41. 1 - 1E.	i ii.
Fluorene	i in E	:	15. 15.	1 III.
4-Nitroaniline 4,6-Binitro-2-Methylphenol	i III. I III	E E	1 127 1 127 1 127	
N-Nitrosodiphenylamine	i E	E E	:	1 1
4-Bromophenyl-Phenylether	7 L) E	l E	E
Hexachlorobenzene	i E) E	i E.	1 6
Pentachtorophenat	E	1	E	i E
Phenonthrene	1	; E	i E	ì E
Anthracene	1 15.	i E	E	d E
Olar Butylphtmalate	} <u>E</u>	i E) TE	! E
	11		•	,

ANALYTICAL DATA LCP CHEMICALS, LINDEN, NJ SAMPLING DATA : 9/27/84 CASE NUMBER : 3348

SEMI-VOLATILES

	14		1	. I marata da mara marata da m	·
SAMPLE NUMBER MATRIX UNITS		83785 WATER UG/L	D3786 WATER UGZL	. 83787 : SOIL : UG/KG	D3789 SOIL UG/KG
Fluoranthene Benzidine Pyrene Butylbenzylphihalote 3,3'-Dichlorobenzidine Benzo(a)Anthracene Bis(2 Ethylhexyl)Phthalat Chrysene Di-n-Octyl Phthalate Benzo(b)Fluoranthene Benzo(k)Fluoronthene Benzo(a)Pyrene Indeno(1,2,3-cd)Pyrene Dibenzo(o,b)Anthrocene	(i) (i) (i) (i) (i) (i) (i) (i) (i) (i)				
Benzo(shi)Perylene		E.	1 4) la.	1. 1.

MOTES:

Blunk space - compound analyzed for but not detected

E - analysis did not poss QA/QC requirements

ANALYTICAL DATA

LCP CMEMICALS, LINDEN, NJ SAMPLING DATA : 9/27/84

CASE NUMBER : 3348

SEMI	3.1774	3. 7	7.1	CT (C)
1011.1113	A 3.13°	. 171	J. L.	. 1 🗘

SEMI-VILIALIEN		•	i
25 A SEPTE 27 - STUDENT TO	797777379	1 13790	. p3791
SAMPLE NUMBER	: BUZS9 : SOIL	: 50770 : 807.	: 501L :
MATRIX	· ·		
UNITS) UG/K6	1 U67K6	! UG/KO :
N-Nitrosodimethylamine	(4) E	i E	
Fhenol	E		
Aniline			
Bis(2-Chloroethyl)Ether	F	1 /m -	i E
	10 II.	a ley	1 L
2-Chiorophenol			
1,3-Dichlorobenzene	65 11 11		7 4E
1,4-Dichlorobenzene	d kii.		1 E
Benzyl Alcohol			
1,2-Dichlorobenzene	¥ . E)	in the terms of th
2-Methylpheno:	E		
Bib(2-Chloroisopropyl)Ether			1 977 1 Ed.
d-Methylphenol	E .	1 2". 1	l E
N-Nitroso-Di-a-Propylamine	E		E .
Hexachloroethane	E		
Nitrobenzene	1		
lsomorone	" E	I	.1
2-Nitrophenol	e E	<u> </u>	E
2,4-Dimethylphenol	15.	! E	1
Benzoic Acid	4 Æ	E.	: E
Dis(2-Chloroethoxy)Methane	# E .	1. 1	l E
2,4-Dichlarophenal	† E) III	! E
1,2,4-TrichDorohenzene	# K.	<u> </u>	<u> </u>
Naphthalene	4	1	E
4-Chioroaniline	! #	1 11.	E
Hexachlorobutadieno	E	!	I E
4-Chioro-3-Methylphenol	1 1	I E.	12.
A-Methylmaphthalene	i iii	! E	l E
Hexachloreyclopentodiene	<u> </u>	! E	
2,4.6-Tráchlorophenol	E	E.	i.
2,4,5/Trichlorophenol	g E	† P.)
2-Chloronapu sha xene	B E	I E	<u>E</u>
2-Witrouniline	X E	1 1	E
Dimethy: Phthalote	! E	T. E.	: 12
Acenaehthylene	4 E.	[E	E C
3-Nitroaniline .	## [E. 1		1 (G
Acenaphthene	E.	E.	1 1
2,4-Dinitrophenol		E.	}
4-Nitrophenol	1 E	; <u>E</u>	
Dibenzofuran	Ē	t E	E
2,4-Dinitrotolyene			
2,6-Dinitrotoluene	1 1	E	₩.
Diethvi Phthalate	# E		
4-Chlorophenyl-phenylether		: E	1 fee 1 pro- 1 km
Fluorene			
i jaorwie 4-Nitroaniline	1 1	1 1	
- t.5-Dinitro-2-Methylphehol		1 🗓	! E.
•			; I : I : I
N-Nitrosodiphenylamine	i E		i ta
4-Bromophenvl-firentiether		E.E.	1 E
Hexachlorobenzene	E)
Pentachlorophenol	T.		
Phenonthrene			į E
Anthrocene	ii E	! E	
Di o-Butylphthalate	; F.	! 18.) E

ANALYTICAL DATA . LOP CHEMICALS, LINDEN, NJ SAMPLING DATA : 9/27/84 CASE NUMBER : 13348

SEMI-VOLATILES				,	
CAMPLE NUMBER MATRIX UNITS		DU789 SOIL UG/KC	: 83790 : 801L : UG/KO	: 83791 : SOIL : UQZKG	; ; ;
Fluoranthese		12.	; ;	i iii	}
Benzidine		(E)) E	1.	;
Pyrene	11	Ľ.	i E	l E	. 1
Rutylbenzylphthalate	· .	E.	1 F.	; E	"
3,3'-Dichlorobenzidine	1	17.) E	: E	!
Benzo(o)Anthracene	1	E	Y	E	7
Bis(2 Ethylhexyl)Phthala	t.ea :	F.	f - E	1:	!'
Chrysene	. 1	F	(6)	ł Œ	2. 1
Di 4-Octyl Phtholate	:	1.") E	<u> </u>	:
Renzo(b)Fluoranthene	. ;	1	1 6	: #	i
Renzo(K)Fluoranthene	1	. E	i E	1 1	Į,
Renzo(a)Pyrenc	. !	· <u>}:::</u>	: E	i ii	:
Indono(1,2,3-gd)Pyrese	.;	Œ	l E) jere 1- 1 /	1
Dibenzo(o,h)Anthracene	1	E.) YEL	1 12	:
Benzo(shi)Perviene	t •	E.	1 . E .	i iii	:

NOTESS

Blank space - compound analyzed for but not detected

E - coolysis did not pass RA/QC requirements

ANALYTICAL BATA

LCP CHEMICALS, LINDEN, NJ SAMPLING DATA : 9/27/84 CASE NUMBER : 3348

PESTICADES/PERS

1 This Supplemental Control of the C		•	1	:	1
SAMPLE NUMBER MATRIX UNITS		9 B3750 WATER U67L	B3751 WATER UG/L	83752 WATER UG/L	B3754 WATER: UG/L
Alpha BHC	***************************************	<i>i</i>	!	1 1	1
Deta-BHC		1		' 	1
Delta-DHC	,	1!	1.	1	<u> </u>
Gamma 1940 (Lindaae)		1	1	;	1
Heptachlor		1		<u>.</u>	I.
Aldrin			1	1	1.
Heriachlor Epoxide		İ	· ·) r	:
Endosulfan I		1	!	!	1
Dieldrin		; !	1	; ;	i.
AyA'-DEE		1	t •)	<u>!</u> •
Each of the		į.	•	} .1	\$ 1
Endosulfan II			<u>.</u>	<u>y</u>	}
7 , 4 (-1(Y)))		} •	1	1	1
Endrin Aldehyde] !) •	! !	1
A o A C - TILL I		t.	1	1	1
Methoxychlor		i i	I' •		† *
Endrin Ketone		1	1	!	
Chlardane		i.	f. (!	;
Toxophene		!	2	:	*
Arochior-1016		1	:	.1	i i
Arochlor-1221		<u> </u>	i i		1
Arochior-1232			1	1	1
Arochlor-1242	•	!	!) . !	
Arochlor-1249	•	1	1	1	•
Arochiocyll54	•	t.		1	i .
Arochioc 1260 j ·		<u>:</u>	1 · · · · · · · · · · · · · · · · · · ·	!	

NOTEST

Blank space - compound analyzed for but not detected

E - onolysis did bot pass QA/QC requirements

ANALYTICAL DATA LCP CHEMICALS, LINDEN, NJ SAMPLING DATA : 9/27/94 CASE NUMBER : 3348

PESTICIDES/PCEs

PEROLEGEDE DV FURE	, 1				
SAMPLE NUMBER MATRIX UNITS	i i i i i i i i i i i i i i i i i i i	B3785 WATER UG/L	03784 WATER UGZL	B3787 SOIL UG/KG	B3788 SOIL UO/KG
Alpha-BHC .	1			1	
RetainBHC	.1 •		•	i •	
Delta-BHC]	,		1	
Commo-BHC (Lindone)			•	r i	
Heptachlor	· <u>\$</u>			! !	
Aldrin .	4.				
Hertachlor Epoxide	1				
Endosulfan I	a a	;	i '		
Dieldrin	1		!	1	
今 , 各个一的的图			! . !	1	
Endrin		•	! •		
Endosulfan II	3		}	:	
4,44-BUD		* ·	1	1	
Endrin Aldehyde	- 1			! !	
4,44-DDT	3		! '	!	
Methoxychior	1			1	
Endran Ketone	1 ;		1	! :	
Chlordane			ł .	1	
Toxophene -	1	: .	l		
Arochior 1016	.1	. •) 1	; ;	
Arochior-1221	.3		† •	** **	•
Arochlor-1232	;}		•		
Arochlor-1242	1	•			
Arochlor-1248	4 1	•	' ;	1) i
Aroch]or-1254	3	•		P	,
Arochlor-1260	1.	•	<u>:</u>	<u>.</u>	

NOTES:

Blank space - compound analyzed for but not desected

E - analysis did not pass QA/QC requirements

ANALYTICAL DATA LCP CHEMICALS, LINDEN, NJ SAMPLING DATA : 9/27/84 CASE NUMBER : 3348

PESTICIDES/PCBs				
SAMPLE NUMBER MATRIX UNITS	h 1	83789 8011 UGZKG	83790 801L UGZKG	B37 9 1 SOIL UG/KG
Alpha-BRC Beta-BRC Delta-BRC Gamma-BRC (Lindane) Heptachlor Aldrin Heptachlor Epoxide Endosulfun l Dieldrin 4,44-DDE Endrin Endosulfan li 4,44-DDD Endrin Aldenyde 4,44-DDT Methoxychlor Endrin Ketone Chlordone Toxaphene				1
Arochlor-1016 Arochlor-1221 Arochlor-1232 Arochlor-1232 Arochlor-1234 Arochlor-1234				

MOTEST

Blank space - compound analyzed for but not detected E - analyzis did not pass RA/RC requirements